RECORDS CLASSIFICATION FORM FOR REGION V RCRA RECORDS

Today's Date: 2/15/17
Site Name: Warren Steel Holdings
ID Number: 0H2 R 000 007773
Date(s) of Documents: 2013
Type(s) of Document: RORA En faciment
Quantity of Documents: No. of Box(es) No. of Folder(s):
Sensitive: CBI Room DIF Enforcement Sensitive (Red Folder)
Documents can go to Federal Record Center: Yes No No No No
Submitted by: <u>Samie Paulin</u>
phone Number: 6 177]
Comments:



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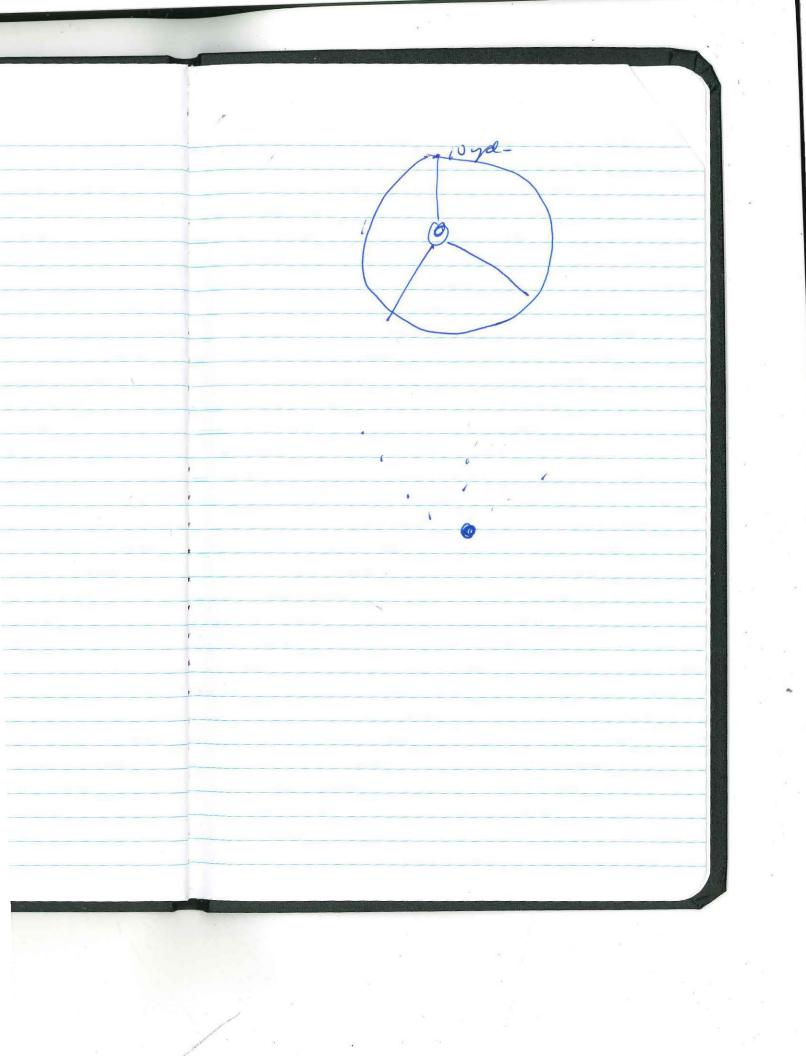
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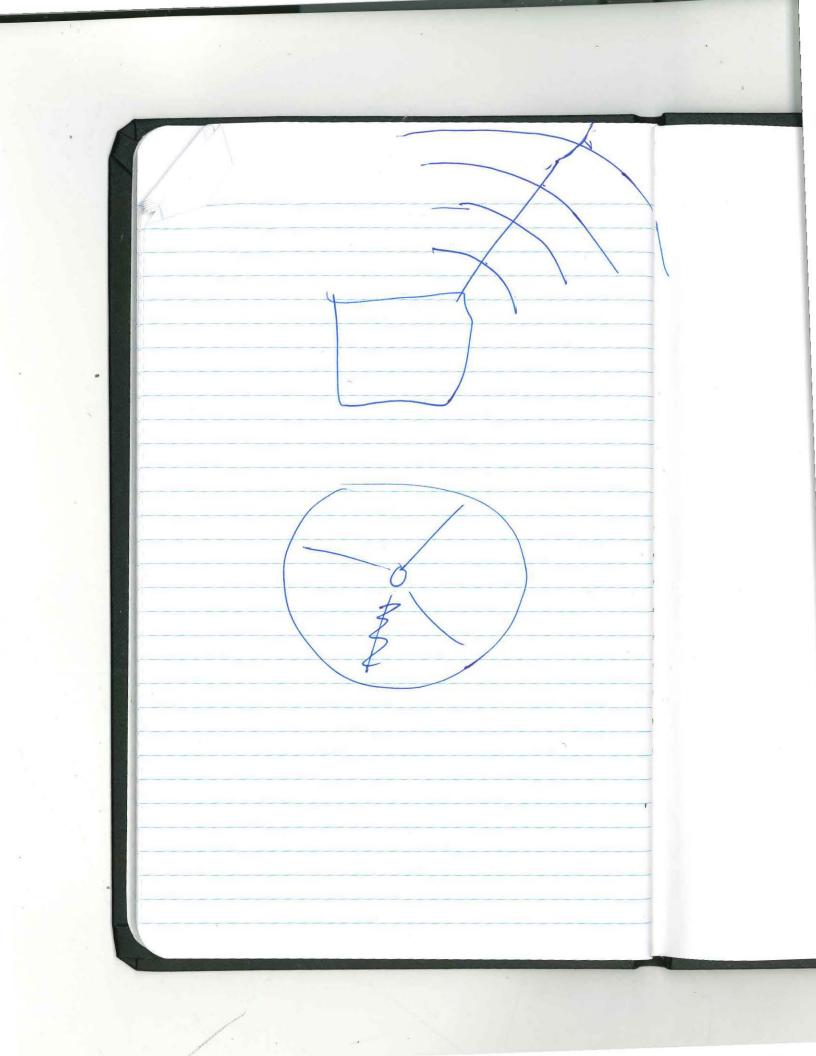
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Warren Steel Holdings LLC Jamie latropulos - Project Manager

Production Area	Description	Area Requested From	Date Received	EPA Document Number	CBI Claimed	Pages Obtained
General	Emergency Action Plan	Records	9/17/2013	JI-ws-01	No	21
General	Site Location Map	Records	9/17/2013	JI-ws-02	No	1
General	Facility Layout	Records	9/17/2013	JI-ws-03	No	1
General	Manifests of K061 to Michigan Disposal from 8/23/13 to 9/7/13.	Records	9/17/2013	JI-ws-04	No	16
General	MCS Environmental Laboratory Warren Baghouse Dust, dated, 3-1-07.	Records	9/17/2013	JI-ws-05	No	2
General	CEL Cardinal Laboratories, Inc. Laboratory Analysis Report for Sludge Press Cake, dated, 3/28/2012.	Records	9/17/2013	JI-ws-06	No	3
General	Michigan Disposal Waste Characterization Report for K061 Electric Arc Dust, dated, 3/12/07.	Records	9/17/2013	JI-ws-07	No	3
General	Storm Water Pollution Prevention Plan, Prepared by Horizon Environmental Corporation, dated, 9/1/11.	Records	9/17/2013	JI-ws-08	No	24
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EMERGENCY ACTION PLAN

1. PURPOSE

1.1. This Contingency Plan is intended to provide general and specific procedures for reacting to different types of emergencies that may be encountered at Warren Steel Holdings (WSH) and provide for the safest and most efficient method to protect and where necessary, to evacuate employees from the plant and account for all employees quickly.

2. RESPONSIBILITY

- 2.1 The Safety Manager is responsible for the development of this written program, to provide training, provide assistance to the department Supervisors/Managers, audit the effectiveness of this program and make changes as needed. All Supervisors/Managers are responsible for implementing and enforcing this policy.
- 2.2 Supervisors/Managers are responsible for enforcing this policy and ensuring that all employees that they supervise shall know, understand and are trained on this policy. Supervisors/Managers who oversee contracted work, shall ensure that contracted employees fully understand this policy and abide by it.
 Each dept. Supervisor/Manager is responsible for accounting for all assigned employees, personally or through a designee, by having all such employees report to the predetermined designated assembly point and conducting a head count. Each assigned employee must be accounted for by name. All Supervisors/Managers are required to report their head count (by name) to the Emergency Coordinator.
- 2.3 The Emergency Coordinator is responsible for overseeing emergency response activities, directing personnel and coordinating with emergency services in the event of an emergency situation. The Emergency Coordinator shall be the highest ranking official on-site with knowledge of operations and maintenance functions. The Emergency Coordinator shall only be needed if the situation is deemed uncontrollable by Supervisors/Managers. It is critical that employees know who the Emergency Coordinator is and understand that this person has the authority to make decisions during emergencies.

3. GENERAL

3.1. In the event of an emergency, it may be necessary for Maintenance and/or Production employees to remain on-site to operate critical plant operations before they evacuate. This may include shutting off electrical or gas supply lines, machines, equipment, etc.

3.2. If an emergency situation arises, all Maintenance and Production personnel shall report to their assigned assembly areas as quickly and safely as possible

- 3.2.1. All employees should be accounted for at this time by their immediate Supervisor/Managers.
- 3.2.2. Each Dept. shall report by radio to the <u>Emergency Coordinator</u> of the final headcount for their Dept.
- 3.2.3.1 In the event an employee(s) cannot be accounted for, as long as conditions permit, teams of 2 will search the area. If conditions are IDLH (Immediately Dangerous to Life a Health), emergency services shall be relied on to search the area for the unaccounted employee(s).
- 3.2.3. Job tasks shall be assigned in teams of at least two (2) or more employees.
- 3.2.4. Job tasks will be assigned by the <u>Emergency Coordinator</u> or designee in the event of an emergency.
- 3.2.5. Radio communication shall be maintained during the completion of the job tasks.
- 3.2.6. Upon completion of a job task, all employees that were assigned job tasks shall report back to to their assigned assembly area and report to their Supervisor/Manager.

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3.3. When emergency officials, such as the local fire department, respond to an emergency at this plant, they will assume responsibility for the safety of building occupants and have the authority to make decisions regarding evacuation and whatever other actions are necessary to protect life and property. The highest-ranking responder will assume the incident commander role and will work with the onsite Emergency Coordinator, but will be responsible for directing all response activities.

4. TYPES OF POSSIBLE EMERGENCIES

4.1. The following is a list of the types of possible emergencies:

Medical

Fire

Explosion (Molten Steel)

Electric power lines down

Power Outage

Gas leak

Fuel Spill

Chemical spills

Tornado/Severe Weather

Violence in the work place

Ladle/Furnace/Tundish Breakout

Bomb Threat

Radiation

Hazardous Waste Spill

5. REPORTING PROCEDURES

- 5.1. All emergencies are to be reported immediately to the Supervisor in charge. The Supervisor is to immediately determine the necessary response and if necessary, contact Security by two-way radio communication on channel three (3) or by dialing x7085 on any plant phone or 330-847-7085 if using an outside line with instructions depending on the circumstances.
- 5.1.1. The Supervisor is to explain in detail what the emergency is and the location for emergency response services to report to. The Supervisor or designee shall escort emergency services to the scene of the emergency from the Security gate.
- 5.2 In the event that a Supervisor cannot be located immediately, employees are to contact Security by two-way radio communication on channel three (3) or by dialing x7085 on any plant phone or (330) 847-7085 from an outside line and notify any Supervisor as soon as possible. The employee should provide as much detail as possible to Security.
- 5.3Security shall go to go to channels 1, 2 and 4 repeating the following on each channel. "WE HAVE AN EMERGENCY WITHIN THE PLANT PLEASE GO TO CHANNEL THREE".

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5.4 Then return to channel three (3) and announce the following. "WE HAVE A PLANT EMERGENCY, PLEASE FOLLOW INSTRUCTION ON CHANNEL THREE", then contact the appropriate staff members (Refer to Appendix A for the Emergency Contact List).

5.5 Supervisors are to monitor channel three (3) and only communicate as need per the emergency.
5.6 Security shall contact the appropriate emergency services and provide the following information: (Refer to Appendix B for contact information for Emergency Services)

Street Address:

Warren Steel Holdings 4000 Mahoning Ave. NW Warren, Ohio 44483

5.7 Type of Emergency

5.71 Location within the plant of the emergency

5.72 Any other needed information that will assist emergency services.

5.8 In the event of an emergency when the plant is down, Security will contact the appropriate services as needed and the Emergency Coordinator/ designee and management, as applicable, from the emergency contact list.

5.9 When Security has been contacted that the emergency is over they will announce "OUR PLANT

EMERGENCY IS OVER PLEASE RESUME NORMAL COMMUNICATIONS".

6. MEDICAL EMERGENCIES

- 6.1 All injuries shall be reported to your immediate Supervisor.
- 6.2 In the event of a MAJOR INURY follow all above reporting procedures as outlined in SECTION 5.
- 6.3 All production shall cease where feasibly possible and the area shall be secured with red danger tape.
- 6.4 If there is any doubt about the medical condition or the possibility of additional harm if moved, the injured employee is not to be moved until properly trained personnel arrive on the scene. The injured person shall be attended to and comforted until emergency services arrive.
- 6.5 The Supervisor shall take the following action:
 - 6.51 Contact Security by two way radio communication on channel three (3) or by dialing x7085 on any plant phone or 330-847-7085 if calling from an outside line.
 - 6.52 Inform Security that you have a "MAJOR MEDICAL EMERGENCY"
 - 6.53 Any time that a major medical emergency is announced over the radio, all other radio communication shall cease on channel three (3).
 - 6.54 Security will request the following information from the Supervisor
 - -Injured parties name (if known)
 - -Injured parties approximate age
 - -Type of accident that occurred
 - -Suspected injuries (if known)
 - -Location of injured employee
 - 6.55 Security will then dispatch emergency services to the facility.
 - 6.56 Security will block open the front gate to permit emergency services to enter without delay.
 - 6.57 The Supervisor or designee will meet emergency services at the Security gate and direct them back to

WARREN STEEL HOLDINGS LLC

SAFETY POLICY

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the scene of the emergency.

- 6.58 The EHS Manager and appropriate Management Staff shall also be contacted as soon as possible.
- 6.59 An accident investigation will be conducted by the appropriate personnel as soon as possible.
- 6.6 Only properly trained individuals will clean up blood from an accident.

7. FIRE EMERGENCIES

- 7.1 The outbreak of a fire requires immediate and precise action by all employees. Small fires or incipient fires can be usually be put out quickly by employees trained in the proper use of fire extinguishers. Never place yourself in harm's way without an escape route.
- 7.2 Appropriate fire extinguishers are located throughout the plant.
- 7.3 Any time a fire extinguisher is discharged, the Supervisor shall complete an incident report focusing on corrective action to prevent future fires. The Supervisor or designee shall replace fire extinguisher(s) as soon as possible, but no later than the end of the shift.
- 7.4 All employees shall be trained in appropriate use and type of fire extinguishers upon initial employment and annually their after.
- 7.5 If a fire is too large or cannot be contained by the use of fire extinguishers, then follow all above reporting procedures as outlined in **SECTION 5**.
- 7.6 Employees shall report to their Depts. designated assembly area to be accounted for by their Supervisor/Manager if a fire is deemed too large to contain and emergency services are needed to handle the emergency.
- 7.7 Fire fighting systems
- 7.71 Fire hydrants are located throughout the facility.
- 7.8 When the fire department arrives, they are to be advised by the <u>Emergency Coordinator</u> of the area of the plant affected, the type of fire, and any hazardous chemicals in the area. The fire department is to take control at this point and all employees are to stay clear of the area and out of the way of emergency services personnel unless requested.
- 7.81 Action and communication with emergency services will be conducted by the <u>Emergency Coordinator</u>.
- 7.9 Re-entry into any building will not be allowed until the area has been determined safe to re-enter by emergency services and the <u>Emergency Coordinator</u>.

8. EXPLOSION (MOLTEN STEEL)

- 8.0 If the EAF is going to explode, exit the floor immediately. Do not try and save the day!
- 8.1 Emergency pouring locations shall be maintained to ensure a location for molten steel in the event of an emergency with the ladle and or ladle slide gate or any other situation that may arise that requires the dumping of a ladle of molten steel.
- 8.2 If the pouring locations are utilized, steel should be removed as soon as possible to ensure a location for any additional molten steel.
- 8.3 Scrap steel shall be maintained free of moisture, snow and ice prior to charging the furnace. In the event that moisture, snow or ice are observed, hold the scrap over the furnace for an appropriate amount of time before emptying the scrap into the furnace.
- 8.4 In the event of a molten steel spill that is deemed uncontrollable, the Emergency Action Plan shall be activated.
- 8.5 Know and understand department standard operating and emergency procedures.

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9. ELECTRICAL LINES DOWN

9.1 Electrical lines' being knocked down is a possibility and can cause the potential for a serious shock, electrocution or in extreme cases explosion.

9.2 In the event of an electrical lines being knocked down, follow all above reporting procedures as outlined in

SECTION 5.

- 9.3 In the case of electrical power lines down, all employees are to clear the area, and the area shall be secured to prevent access with red danger tape that totally encompasses the area.
- 9.4 If necessary, employees will be required to evacuate if there exists a danger of fire or explosion.
- 9.5 The Maintenance Manager or designee will assign the electrical dept. to immediately shut-off the appropriate power supplies.

9.6 Under no circumstances are employees to try to extinguish an electrical fire.

9.7 The fire department is to be called and advised of the situation prior to proceeding to the location.

10. POWER OUTAGE

- 10.1 In the event of a power outage, the following procedures shall be followed:
 - 10.1.1 The Emergency Action Plan shall be activated if an emergency situation exists.
 - 10.1.2 The Emergency Coordinator (or designee) shall coordinate the removal of crane operators from crane cabs. Aerial lifts shall be utilized to assist in the removal of the crane operator from the crane cab.
 - 10.1.3 The aerial lift operator will take a full body harness and a double retractable lanyard to the crane operator. The crane operator will wear a full body harness and maintain 100% tie off when going from the crane cab to the aerial lift basket.
 - 10.1.4 If the crane cab is not accessible by aerial lift, the Fire Dept. (911) shall be contacted to remove the crane operator from the cab.
- 10.2 Emergency exits signs and emergency lighting shall be maintained and inspected monthly to ensure they are in good working order.
- 10.3 Fire hoses shall be inspected monthly to ensure they are in good condition.
- 10.4 The fire dept shall be called and informed of the situation at hand and be prepared to respond if needed.
- 10.5 Fire hydrants shall be unobstructed to ensure there accessibility at all times.
- 10.6 In areas of insufficient lighting, employees shall not enter without proper illumination equipment such as flash lights, emergency lighting, light plants, flood lights, etc.

11. GAS LEAK

- 11.1 Natural gas or flammable propellant leaks are always a possibility and could lead to a serious explosion.
- 11.2 In the event of a gas leak follow all above reporting procedures as outlined in SECTION 5.
- 11.3 The Supervisor will immediately review the situation and ensure appropriate action is taken to correct the leak immediately.
- 11.4 If necessary, the Emergency Action Plan shall be activated. Access to the area shall be restricted by taping off the area with red danger tape and all sources of ignition are to be kept clear of the area.
- 11.5 The Maintenance Manager or designee is to ensure the shutoff the appropriate gas valves and electrical circuits.
- 11.6 If necessary, Maintenance or the Safety Department shall use the confined space gas detection unit to identify the source of the gas leak.
- 11.7 Employees are only to return to the area after Maintenance has ensured the leak has been repaired and

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the combustible gas meter shows no hazard of flammable gas exists.

12. CHEMICAL SPILL

12.1 It is important for all employees to be familiar with the types of chemicals used at Warren Steel Holdings. The Hazard Communication Program (Right to Know) provides all employees with information on the types of chemicals and the hazards of each. If in doubt, obtain the MSDS for the chemical in use.

12.1.1 All employees shall be trained in chemical hazard communication per 29 CFR 1910.1200 and shall be trained that they do not attempt to contain or clean up hazardous materials spills unless they have received specific training. These employees shall be trained to contact appropriate supervisory and emergency personnel whenever a hazardous materials incident occurs or is likely to occur. In addition, employees shall be trained on the site Emergency Action Plan and their role in it.

12.2 In the event of a chemical spill follow all above reporting procedures as outlined in SECTION 5.

12.3 Security shall contact the Emergency Coordinator (or designee), EHS Manager (or designee) and appropriate management. A determination must be made as to whether it is a non-emergency spill or an emergency spill. A non-emergency spill is one consisting of NON-Hazardous Material that can be controlled or cleaned up safely in the local area without risk to the individuals doing the clean up. In these situations, the Emergency Coordinator (or designee) shall determine action and ensure appropriate action is taken.

12.4 The Emergency Coordinator shall immediately identify the character, exact source, amount, and extent of any released materials and shall log all pertinent information, including estimated quantities of spill that resulted from the incident and obtain the Material Safety Data Sheet(s) to obtain detailed information on the chemicals that have spilled.

12.5 Whenever there is an emergency situation which presents imminent or actual harm or danger to human health or the environment, the <u>Emergency Coordinator</u> (or his designee) shall activate the Emergency Action Plan and shall notify Shaffer Industrial Services by contacting their 24 hour response hotline (330) 847-2992.

12.6 All employees shall be evacuated from the area of the spill.

12.7 The area shall be secured with red danger tape to restrict access to the area.

12.8 Non-Emergency Spills

12.8.1 The Emergency Coordinator shall determine if the spill is small enough to contain, control and clean up. Generally, spills of one cup or less can be wiped up with paper toweling or absorbent spill kit materials. Spills of approximately one gallon can be cleaned up with spill kit materials such as spill socks, pads, or absorbents. Spills of highly hazardous material in any size may require emergency cleanup from an outside resource.

12.8.2 The Emergency Coordinator shall coordinate the use of the necessary emergency equipment for non-emergency spills. If the spilled material is flammable or volatile, shut off flame sources and naturally ventilate the area if it is safe to do so. If possible, protect floor drains or outside access areas from the spill. Restrict access to the spill area to prevent further access and potential exposures by taping off the area with red danger tape. If any employees were exposed to the spilled material, use emergency eye washes or showers for at least 15 minutes and get to a well-ventilated area and refer to the MSDS for necessary first aid measures should be taken.

12.9 If necessary, properly trained personnel shall utilize the appropriate personal protective equipment and:

12.9.1 Close valves and/or shut down pumps.

12.9.2 Use spill pillows, spill socks, rags, sand, floor dry, dirt, etc. to contain the spill or release.

12.9.3 Use available containers to catch small leaks if possible.

12.9.4 Divert the flow away from any drains, catch basins, or manholes by using the above listed

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materials.

12.9.5 For leaking drums, rotate the drum so the leak can be stopped.

12.9.6 For flammable material, eliminate all potential ignition sources immediately.

12.9.7 After the spill has been cleaned up, place absorbent materials and materials that have leaked, into a properly labeled and sealed safety container or drum.

12.10 Emergency Spills

12.10.1 In cases of large spills, ones that cannot be isolated quickly, or an emergency spill of a highly hazardous chemical or an UNKNOWN chemical; all employees are to clear the area immediately. If conditions exist which require possible evacuation of the area, the facility Emergency Coordinator will initiate the Emergency Action Plan. The local Fire Dept. shall be called (reference emergency contact list) and advised of the situation. The Fire Dept. will contact the HAZ MAT team. No employee is to enter the area for any reason once the area has been evacuated. The area is to be secured with red danger tape and access restricted. If necessary, all employees are to be evacuated from the facility and taken to an appropriate distance from the plant. Once the Emergency Spill Clean Up contractor arrives, they are to take control of the containment, control and clean up. Shaffer Industrial Services is the designated Emergency spill cleanup contractor.

12.10.2 During an emergency, the facility <u>Emergency Coordinator</u> shall take all reasonable measures necessary to ensure that fires, explosions and releases do not occur, reoccur, or spread to other hazardous materials or waste at the facility. These measures shall include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.

The following information is to be supplied to the Shaffer Industrial Services:

- 1. The name and/or a description of the chemical or substance.
- 2. The chemical name and common name.
- 3. The chemical identification number.
- 4. Location of the spill.
- 5. Other chemicals in the area.
- 6. Approximation of the quantity spilled or released if possible.
- 7. Any additional information which may be helpful. Only after the Emergency Spill Cleanup contractor has declared the area safe, will employees be allowed to return to the plant.
- 12.10.3 When the incident is under control, the <u>Emergency Coordinator</u> will assure that a licensed hazardous material waste hauler provides for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire or explosion at the facility.
- 12.10.4 Due to the limited in-house emergency capabilities which are available at Warren Steel Holdings: the local Fire Dept. shall be called to assist whenever significant spill is encountered. Arrangements are to be made with a licensed hazardous material waste cleanup/hauler for all large spills. Copies of this Contingency Plan have been provided to the appropriate emergency authorities at the Champion/Warren Township Fire Departments and the Warren Police Department

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13. TORNADOS/SEVERE WEATHER

- 13.1 Tornados are always a possibility in Ohio during the spring and summer seasons. In the event of a tornado, all employees shall seek inside shelter in designated tornado shelters (Refer to Appendix C for List of Designated Severe Weather Shelters). If an employee is unable to reach a tornado shelter they shall go to:
 - 13.1.1 Small interior rooms on the lowest floor and without windows.
 - 13.1.2 Hallways on the lowest floor away from doors and windows.
 - 13.1.3 Rooms constructed with reinforced concrete, brick, or block with no windows.
 - 13.1.4 Stay away from outside walls and windows
 - 13.1.5 If outside or unable to reach a tornado shelter, employee shall lie down in a ditch or on the floor or get under heavy equipment staying away from doors and window.
- 13.2 The Security department shall monitor the weather band radio and the weather radar on www.weather.com when severe weather exits. If it is determined that a tornado is in the area or the potential for a tornado exits:
 - 13.2.1 Security will contact all Supervisors/Managers by designated radio channels and advise them we have a weather emergency and direct them to go to channel three. Further instruction will be on channel three.
 - 13.2.2 Supervisors shall contact all employees and direct them to their designated tornado shelters. Employees shall be accounted for as outlined in the Emergency Action Plan.
- 13.3 Weather emergency priorities should include:
 - 13.3.1 All crane operators are down from cranes.
 - 13.3.2 All equipment is shut off
 - 13.3.3 The EAF, LRF and the Caster are in a controlled state.
 - 13.3.4 All employees are accounted for and report to the established shelter in each work area.
- 13.4 Only after the all clear has been given by Security, are employees to resume work. After the tornado has passed, all employees are to report to their departmental Supervisor immediately. If there are any injured employees, please follow the procedures outlined in the Medical Emergency section.

14. FUEL SPILL

- 14.1 In the event of a fuel spill, contact a supervisor immediately.
 - 14.1.1 Clear area of people
 - 14.1.2 Supervisor contacts the <u>Emergency Coordinator</u> or designee, EHS Manager and appropriate Management personnel.
 - 14.1.3 The <u>Emergency Coordinator</u> or designee and the EHS Manager or designee shall evaluate the spill and determine if it can be contained and cleaned up in-house by properly trained personnel or does the spill have to be contained and cleaned up by the HAZ MAT team
 - 14.1.4 Eliminate all ignition sources (i.e., cigarettes, sparks or flames)
 - 14.1.5 The <u>Emergency Coordinator</u>, with help of Supervisors/Managers, shall secure the area and restrict access to the spill area by personnel.

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14.2 If the spill is determined to be a Non-Emergency spill, refer to section 12 and sub-section 12.8

14.3 If the spill is determined to be an Emergency spill, refer to section 12, and sub-section 12.10

15. WORKPLACE VIOLENCE

15.1 Violence in the workplace is an increasing concern. It takes the form of harassment, threats and attacks which cause physical or mental harm. Our company will ensure a safe and healthy work environment for all of our employees. Depending on your job function, there may be different exposures to consider. Violence from controllable, internal sources will not be tolerated for any reason.

- 15.2 This includes, but is not limited to the following:
 - 15.2.1 Disruptive activity in the workplace.
 - 15.2.2 Threatening, hostile or intimidating behavior.
 - 15.2.3 Possession of a dangerous weapon.
 - 15.2.4 Violation of restraining orders.
 - 15.2.5 Fighting
 - 15.2.6 Verbal Abuse
 - 15.2.7 Stalking
 - 15.2.8 Sabotaging another employees work.
 - 15.2.9 Harmful misuse of equipment or other company property.
 - 15.2.10 Any behavior which is perceived as threatening by the recipient.
 - 15.2.11 Insubordination
 - 15.2.12 Sabotaging company equipment or property.
- 15.3 In an effort to protect our employees WSH will:
 - 15.3.1 Screen applicants thoroughly.
 - 15.3.2 Maintain an open line of communication between salary and hourly employees to keep all parties informed.
 - 15.3.3 Employees shall be trained on conflict resolution
 - 15.3.4 Consider security when dealing with adverse issues (i.e., layoffs, terminations, etc.).
 - 15.3.5 Respond immediately to threatening situations and attempt to resolve the conflict before it escalates to violence.
 - 15.3.6 Observe and document personality changes, negative attitudes, and other danger signals.
 - 15.3.7 Provide counseling and training to employees in order to minimize conflict.
 - 15.3.8 Mandate disciplinary actions for acts of violence.
 - 15.3.9 In cases of threatening behavior, Supervisors are to request assistance from other Supervisors immediately.
 - 15.3.10 The Supervisor is never to attempt to confront an employee in a manner that would elevate the situation.
 - 15.3.11 The problem employees will be removed from the area immediately.
 - 15.3.12 If necessary the Police are to be for assistance and the problem employee(s) shall be isolated from other employees until the police arrive. If more than one employee is involved in the conflict, the employees shall be separated in different rooms or areas.

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15.3.13 Personal safety of our employees is of primary concern. Should you feel that there is a potential for violence, from whatever source, you are expected to report it to your Supervisor so that appropriate actions may be taken. The safety of you and your co-workers may be at stake.

16. BOMB THREAT

- 16.1 In the event that Security receives a Bomb Threat, the following procedure shall be followed:
 - 16.1.1 Security is to keep the caller on the line as long as possible and is to record every spoken word by the person, if possible.
 - 16.1.2 If the caller does not indicate the location of the bomb or the time of possible detonation, the caller should be asked this information.
 - 16.1.3 Inform the caller that the building is occupied and the detonation of a bomb could result death or serious injury too many innocent people.
 - 16.1.4 Pay special attention to background noises, such as motor (s) running, background music and any other noises which may give a clue as to where the call is being made from.
 - 16.1.5 Listen closely to the voice (male, female), voice quality (calm, excited), accents, speech impediments. Immediately after the caller hangs up, by radio, announce on each channel that there is an emergency in the plant and go to channel (3) for further instructions.
 - 16.1.6 The Emergency Action Plan shall be activated and employees shall report to their designated emergency assembly areas. The immediate Supervisor shall conduct a head count of all of their employees.
 - 16.1.7 Security shall dial "911" and notify the police that there has been a bomb threat and provide the dispatcher with requested information.
 - 16.1.8 All employees shall not enter any building until emergency services have deemed it safe to enter.

17. LADLE/FURNACE/TUNDISH BREAKOUT

17.1 The risk of a ladle/furnace breakout will always be present in steel making. In the event of a ladle/furnace breakout, proceed with the following procedures;

17.2 <u>Caster ladle breakout</u>

- 17.2.1 Once a breakout has been discovered, immediately notify your Supervisor. Rotate the ladle turret to the emergency dump ladle and fully open the ladle. Ensure employees are clear before rotating turret.
- 17.2.2 If molten steel damages the molds, refer to section 18, subsection 18.3 for radiation detection at the Caster.
- 17.2.3 The Supervisor shall then do the following:
- 17.2.4 Account for all affected employees and check for injuries
- 17.2.5 If any employees have been injured, follow reporting procedures outlined in **SECTION 6**.
- 17.2.6 Determine if any property has caught fire and if so, decide if the fire can be contained by the use of a fire extinguisher or does the fire dept. need to be notified. If the fire dept. needs to be contacted, refer to the procedure outlined in **SECTION 5** and the Emergency Action Plan shall be activated.

17.3 Tundish Breakout (Burn Through)

17.3.1 When a hot spot or steel is observed coming from the Tundish anywhere but out of one of

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	SEN'S, the cast floor personnel shall be notified by announcing "Tundish hot spot or
-	burn through at location".
17.3.2	The strand operator or caster leader verifies hot spot location.
17.3.3	Caster Supervisor - As soon as a Tundish breakout is discovered, direct Maintenance to shut of
	the gas and oxygen lines.
17.3.4	If a hot spot or burn through occurs at any location on the Tundish, shut off the ladle
	using the ladle slidegate pendant and raise the ladle by pressing the "UP" button on the ladle
	operator's control station. After raising the ladle, immediately leave the ladleman's platform.
17.3.5	If possible, remove the shroud.
17.3.6	Strand Operator-Close stopper rods and announce "Off on Strands #'s and ready to
	move Tundish car on Strand #'s".
17.3.7	Strand Operators-Do not fire the Emergency Gates unless you have uncontrolled steel flow
	through the SEN. If there is time, raise the Tundish and move the emergency boxes. If there
	is a Tundish burn through, hit the "Emergency Run" on the Tundish Car Panel to the
	Tundish to the emergency boxes.
17.3.8	Strand Operators (all)- Once the Tundish is over the Emergency Boxes, open the stopper rods
	(if possible) using the remote hand held control boxes and drain the Tundish.
17.3.9	Caster Personnel- Obtain fire hoses and hose down equipment that is burning and any steel
	on the floor.
17.3.10	
	fish out the SEN's from the mold. Water down bloom in mold until black. Refer to "Cold
	bloom removal".
17.3.11	If molten steel runs over and down in the molds, secure the area and contact the R.S.O
	and or designee. See section 18.3 (Radiation detected at the Caster)
17.3.11	Caster Supervisor- If the Fire Dept. is needed. Refer to Section 5 for reporting procedures.

FOR ALL OTHER EMERGENCY SITUATIONS AT THE CASTER, REFER TO THE EMERGENCY PROCEDURES BINDER IN THE CASTER TURRET PULPIT

17.3.12 Caster personnel shall report to their designated emergency assembly area to be accounted for.

LRF ladle breakout 17.4

- 17.4.1 Once a breakout has been discovered, contact your Supervisor immediately.
- 17.4.2 The Supervisor determines the safest way to transport the ladle to the emergency ladle dump pit without jeopardizing the safety of employees, property and equipment.
- 17.4.3. The Supervisor shall then do the following:
- 17.4.4 Account for all affected employees and check for injuries
- 17.4.5 If any employees have been injured, follow reporting procedures as outlined in **SECTION 6**.
- 17.4.6 Determine if any property has caught fire and if so, decide if the fire can be contained by the use of a fire extinguisher or does the fire dept. need to be notified. If the fire dept. needs to be contacted, refer to the procedure outlined in SECTION 5 and the Emergency Action Plan shall be activated.

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17.5 EAF ladle breakout

- 17.5.1 When a breakout has been discovered, immediately contact your Supervisor.
- 17.5.2 The Supervisor is to immediately coordinate the transport of the ladle to the emergency ladle dump pit in the safest possible manner without jeopardizing the safety of employees, property and equipment.
- 17.5.3 The Supervisor shall then do the following:
- 17.5.4 Account for all affected employees and check for injuries
- 17.5.5 If any employees have been injured, follow reporting procedures as outlined in **SECTION 6**.
- 17.5.6 Determine if any property has caught fire and if so, decide if the fire can be contained by the use of a fire extinguisher or does the fire dept. need to be notified. If the fire dept. needs to be contacted, refer to the procedure outlined in **SECTION 5** and the Emergency Action Plan shall be activated.

17.6 EAF Furnace Breakout

- 17.6.1 When a breakout has been discovered, immediately contact your Supervisor.
- 17.6.2 The Supervisor is to contact the EAF operator and instruct to tilt the furnace to the slag side and dump the ladle into the pit below. The Supervisor will first ensure that all employees and equipment are clear below before dumping the ladle.
- 17.6.3 The Supervisor shall then do the following:
- 17.6.4 Account for all affected employees and check for injuries
- 17.6.5 If any employees have been injured, follow reporting procedures as outlined in SECTION 6.
- 17.6.6 Determine if any property has caught fire and if so, decide if the fire can be contained by the use of a fire extinguisher or does the fire dept. need to be notified. If the fire dept. needs to be contacted, refer to the procedure outlined in **SECTION 5** and the Emergency Action Plan shall be activated.

18. RADIATION DETECTION

- 18.1 In-coming scrap radiation alarm
- 18.1.1 When radiation is detected at the scale, the following procedures shall be followed:
- 18.1.2 Notify the truck driver that the load being shipped has set off the radiation detector.
- 18.1.3 Inform the truck driver to pull completely off the scale and re-drive the truck across the scale.
- 18.1.4 If the detector does not alarm upon the second pass through the scale, instruct the truck driver to make a third pass across the scale. If the radiation alarm does not sound, the truck may enter the facility.
- 18.1.5 If the detector alarms for radiation a second time, the truck driver shall be instructed to pull off the scale and relocate the truck to the South-Eastern portion of the lot and the driver shall wait in the Security Office until notified by WSH officials.
- 18.1.6 The truck shall be quarantined and secured at the South Eastern portion of the lot until radiation levels have been determined by WSH R.S.O.
- 18.1.7 The scale attendant shall notify Security (x7085) of the incident and the Radiation Safety Officer (R.S.O) shall be notified by Security.
- 18.1.8 The R.S.O will determine, with the use of a survey meter, what levels of radiation are present.
- 18.1.9 The area shall be secured, with RED DANGER TAPE, at a safe distance determined by the R.S.O.

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and no personnel shall be permitted to enter that area until it has been deemed safe.

- 18.1.9.1 If the radiation levels are deemed unsafe the R.S.O shall contact the common carrier.
- 18.1.9.2 The R.S.O shall then notify the Ohio Dept. of Health's Bureau of Radiation (614) 722-7221

18.2 Radiation detection in the Chemlab

- 18.2.1 If radiation is detected in the Chemlab, the following procedure shall be followed:
- 18.2.2 Personnel inside the Chemlab shall exit the area.
- 18.2.3 The Chemlab employee(s) shall contact the Melting Manager advising that the survey meter has detected radiation in the samples.
- 18.2.4 The Melting Manager or designee shall contact Security and inform them of the situation.
- 18.2.5 Power to the EAF, LRF, VTD and the Bag House shall be shut down.
- 18.2.6 Personnel shall report to their Depts. assigned assembly area to be counted.
- 18.2.7 Security shall contact (R.S.O, Melt Shop Manager, Quality Manager, C.O.O)
- 18.2.8 The R.S.O shall record the levels of radiation in the plant and contact the Ohio Health Dept. Bureau of Radiation at (614) 722-7221
- 18.2.9 No personnel are permitted into the Melt Shop without the approval of the R.S.O

18.3 Radiation detected at the Caster

- 18.3.1 In the event that Radiation is detected at the Caster, the following procedure shall be followed:
- 18.3.2 The Supervisor/Manager shall evacuate personnel from the area immediately and notify security.
- 18.3.3 The area shall be cordoned off to restrict access 20 ft. away from the area with Red Danger tape.
- 18.3.4 Security shall notify the (R.S.O, Caster Manager, Melt Shop Manager, C.O.O)
- 18.3.5 The R.S.O shall obtain a reading of the levels of radiation with the use of the survey meter (Geiger Counter)
- 18.3.6 If the radiation levels are found to be unsafe, the R.S.O shall contact the Ohio Health Dept. Bureau of Radiation (614) 722-7221
- 18.3.7 No personnel shall enter the Caster area without approval of the R.S.O

19. TRAINING

- 19.1 In an effort to ensure that the Emergency Action Plan is working properly, emergency evacuation/take shelter drills shall be conducted at least annually. The drill shall be unannounced to the employees. Once the warning has been given all employees shall take the appropriate exit route, take shelter and report to their designated area assigned. The drill is to be monitored and timed. Any problems in the drill are to be documented and corrective action taken immediately.
- 19.2 All new employees shall be instructed in the Emergency Action Plan during initial employment training and during Department Specific Safety Training. The trainer/supervisor is to go over the various types of emergencies and the appropriate reporting procedures. Also the employee is to be taken through a walk through drill so he/she is aware of the appropriate exit route, where to take shelter and their assigned assembly area.
 - 19.3 Current employees shall be instructed in the Emergency Action plan every six months or when a change in this policy occurs.
 - 19.4 Proper use of fire extinguishers/fire safety shall be trained at least annually to all employees or more

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if needed.

APPENDIX A Emergency Contact List

The following is a list of emergency contacts for Warren Steel Holdings LLC

Name	Title	Office Phone	Cell Phone
Security	Channel "3" on the radio	330-847-7085	Non-responsive
Mark Trapp	Chief Operating Officer	330-847-6107	
Marshall Green	Melting Manager		
Jon Schuster	Raw Materials/Scrap Manager		
Safety Dept.	EHS Manager/ Radiation Safety Officer	330-847-6119	
Dave Wanstreet	Millwright Manager		
Ed Johnson	Elect/Auto Manager		
Bryan Rhoads	Plant Engineer	330-847-6127	
Nancy Waselich	IT Manager		
James Whitehead	Maintenance Division Manager		
Ed Vasko	Maintenance Engineer		
Eddie Overdorf	Refractory Manager	·	
Mike Villanueva	Casting Manager		
Terry Krebs	Utility, Scrap Coordinator		
Denise Carissimo	HR Manager		
Dave Moore	Quality Manager		
Chris Lait	Shipping/Logistics Manager		
Chuck Stout	Stein Site Manager		
Thad Smith	SMS Operations Manager		

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APPENDIX B

The following is a list of Emergency Response Agencies for Warren Steel Holdings LLC.

Emergency Response Agencies	Contact Number	
Shaffer Industrial Services (Emergency Spill Cleanup)	330-847-2922	
Ohio EPA Emergency Response	800-282-9378	
Warren Township Fire Department (Emergency)	911	
Warren Township Fire Department (Non-Emergency)	330-898-2041	
Champion Township Fire Department (Emergency)	911	
Champion Township Fire Dept. (Non-Emergency)	330-847-0311	
City of Warren Water Dept. Environmental Services	330-841-2561	
Warren Police Dept.	911	
Ambulance	911	
Ohio Health Dept. Radiation Protection 24 Hour hotline	(614) 722-7221	

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APPENDIX C

Designated Severe Weather Shelter Locations. (Note attached pictures of shelters)

Department/Area	Location
EAF	LRF Hydraulic room in the Melt Shop
Caster	Maintenance utility room 1st floor under caster turret floor
LRF	LRF Hydraulic room in the Melt Shop
Refractory	Maintenance utility room 1 st floor under caster turret floor
Maintenance	Closest shelter to work area
Engineering Building	Engineering Building, Interior offices and hallways
Security	Old Receiving building
Baghouse	Craft Shop, Millwrights breakroom
QA (Chem Lab)	LRF Hydraulic room in the Melt Shop
U.S. Filters Building	U.S. Filter building office
Scale House	Old Receiving building
Waste Water Building	River Pump House Basement
Franklin Yard	River Pump House Basement
Chem Lab (Etch Lab)	Engineering Building, Interior offices and hallways

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APPENDIX D Designated Emergency Evacuation Assembly Areas. (Note attached map)

Caster	North of the Steam Generators	
Quality (Chemlab)	North of the Steam Generators	
Quality (Etch Lab)	Front of Engineering Building	
Refractory	Outside Refractory Shed	
LRF	Outside Maintenance Trailer	
EAF	Outside Maintenance Trailer	
Maintenance	Outside Maintenance Trailer	÷
Scale Personnel	Front of Security Building	
Security	Front of Security Building	
Engineering/Administration	Front of Engineering Building	
Bag House	Outside Maintenance Trailer	
Franklin Yard (Security)	Front of Security Building	
Waste Water Personnel	North of the Steam Generators	
U.S. Filter Personnel	North of the Steam Generators	

*Note: If the assigned assembly area is unsafe to occupy due to the nature of the incident, report to an alternate location that is known by all employees.

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APPENDIX F EMERGENCY ASSEMBLY AREAS MAPS

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APPENDIX G SEVERE WEATHER SHELTER LOCATIONS (PICTURES)

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APPENDIX H
EMERGENCY EVACUATION MAPS

WARREN STEEL HOLDINGS LLC SAFETY POLICY

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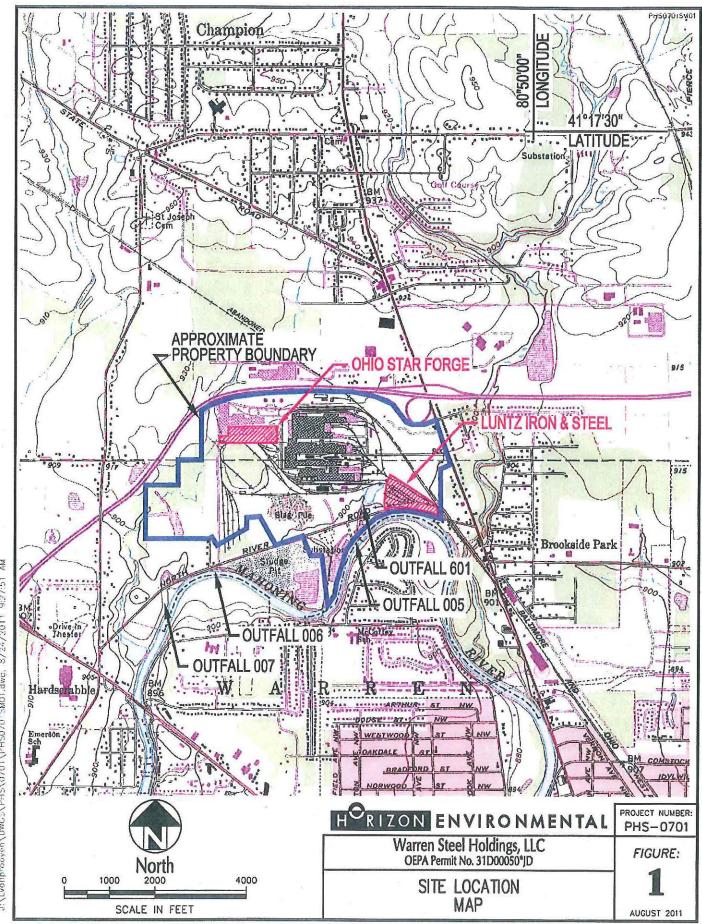
Revision Date:

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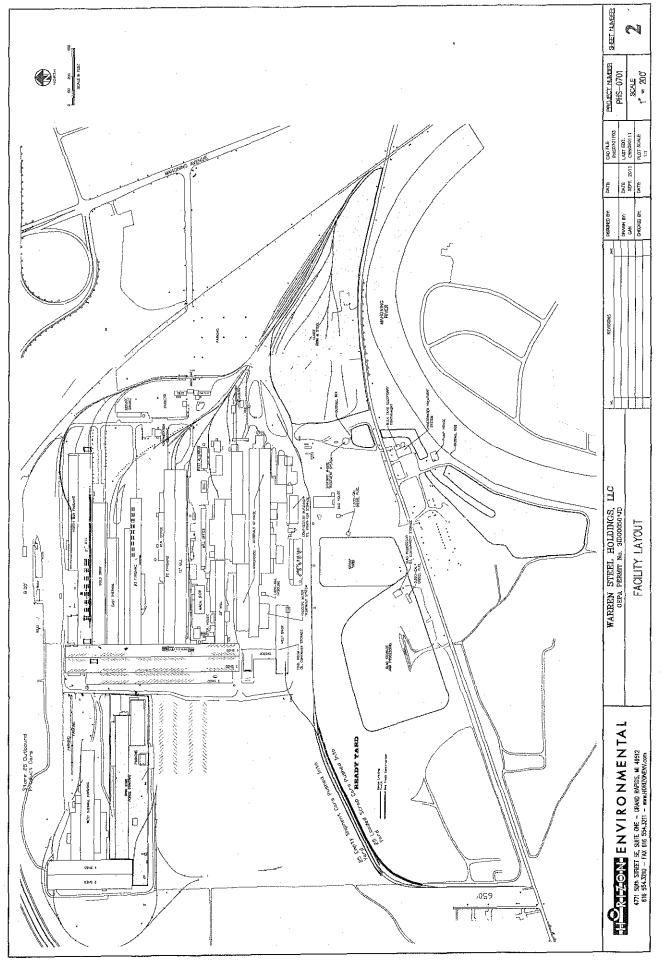
Title: EMERGENCY ACTION PLAN

APPROVED BY:		
Mark Trapp, Chief Operating Officer	Date	_
Jon Schuster, Manager, Steel Making Division	Date	
Chris Croon EUS Manager/R S O	Date	_

Revision #	Revision Date	Nature of Change
001	8/1/2011	Emergency Action Plan enacted
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FOR LEAK, FIRE OR MEDICAL EMERICANCY, CALL INFOTRACE AT LARGE SOCIETATION AND REFERENCE CONTRACT FUNGES.

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' '	5. Generator's Name and Mailing Address		Generator	s Site Address	(if different than	mailing addre	ess)		
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	49350 N, LOA SERVICE DAVÉ, DELLEVILLE, MA 40								
Ш	(800) 582-5489					. \$	ACKAST	D#R31	
$\ \ $	Facility's Phone:						T	- 3 - 50 - 10 - 1	
Ш	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		<u> </u>	10. Contair	ners	11. Total	12. Unit	13. Waste Co	odes
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	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of thi			d accurately de	scribed above I	by the proper s	shipping name,	and are classified, pa	ackaged,
	marked and labeled/placarded, and are in all respects in proper condition for transport ac-	cording to app	olicable interr	national and nati	ional governme	ntal regulation	s. If export ship	ment and I am the P	rimary
	Exporter, I certify that the contents of this consignment conform to the terms of the attach I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a lar				all quantity gene	erator) is true.			
	Generator's/Offergr's Printed/Typed Name		ignature	7//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Month E	Day Year
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1	5. Generator's Name and Maili				Generator's	Site Address (i	f different thai	n mailing addre				*********
٦		a Ave. Warren), OH 44483							5		
	Generator's Phone:	0.847-6119										
	6. Transporter 1 Company Nan	ne 				/******* . #	42-131	U.S. EPA ID	Number	rance sin		_
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lt	8. Designated Facility Name ar	d Site Address		Pi ant			······	U.S, EPA ID	Number	MANAGEMENT AND THE PROPERTY OF	***************************************	
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	15. GENERATOR'S/OFFER	OR'S CERTIFICATION: 11	nereby declare that the cor	ntents of this consignme	nt are fully and	accurately des	cribed above	by the proper s	hipping name,	and are classifie	d, packaged,	~~~
		orded, and are in all respect contents of this consignments.					nal governme	ntal regulations	s. If export ship	ement and I am t	ne Primary	
		nimization statement identi	fied in 40 CFR 262,27(a) ((if I am a smal	I quantity gen	erator) is true.	**************************************	nermanen service servi	Day	
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4		1. Generator ID Number.	2. Page 1 of	3. Emergency Response	Phone		Tracking Nun	
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	5. Generator's Name and Majlin	y Address		Generator's Site Address (ir dilierent than	maising addre	SS)	i
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		contents of this consignment conform to the terms of the a imization statement identified in 40 CFR 262,27(a) (if I am			Il quantity gene	rator) is true.		
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ا <u>ح</u>	18b. Alternate Facility (or Gener	ratori		Manifest Reference	Number:	U.S. EPA ID	Number	
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Form Approved, OMB No. 2050-0039

1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Pho	one	4. Manifest	racking Nu	Approved, OMB NO, 2000-0038 mber 6451 JJK
		ling Address	<u> </u>	Generator's Site Address (if d	ifferent than			V-TV4 VVII
11		IL MLALAINAN LLU 3 AVE, WARREN, OH 44483						
	Generator's Phone:	0) 847-6119					***************************************	706-107-413
	6, Transporter 1 Company Na			(218) 942	.1041	U.S. EPA ID N		730540
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		e contents of this consignment conform to the terms of the at ninimization statement identified in 40 CFR 262,27(a) (if I am			uantity gene	rator) is true.		
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FOR LEAK, FIRE OR MEDICAL EMPREMELY, CALLINFOTRAC

AT 1-MA-535-5053 AND REFERENCE CONTRACT SIDMON

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FOR LEAK, FIRE CR. MEIRICAL EMERICATION, CALL IN CITRAL:

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Form Approved OMB No. 2050-0039

†	UNIFORM HAZARTOUS WASTE MANIFEST	1. Generator ID Number			rgency Response	53	01	Tracking Num		JJK
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1	18. Discrepancy									
	18a. Discrepancy Indication Sp	pace Quantity	Туре		Residue		Partial R	ejection		Full Rejection
 >	18b. Alternate Facility (or Gene	nentra)			vlanifest Referenc	e Number:	U.S. EPA ID) Number		·
ACILIT		naior)					I			
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Fac	cility (or Generator)					150PW-		Month	Day Yea
SE SE	19. Hazardous Waste Report I	Management Method Codes (i.e., code	s for hazardous waste treatmer	ıt, disposal, and r	ecycling systems)					
- 日 日	1.	2.	4.1	3.			4.		H2-2	
		or Operator: Certification of receipt of	hazardous materials covered by		ept as noted in Ite	m 18a			£ 4 = ± 2-	Dou Va
	Printed/Typed Name	And the second second	A STATE OF THE STA	Signature	for the		J	man de la companya de	Month	Day Year

Nea	se pi	rint or type. (Form desig	ned for use on elite (12-pitch) ty	pewriter.)	n fort in Salara	a matili Amen D	ilai enteri Effikkii	entracy <u>erracy</u>	lali PA CI	Form	Approved. Of	ИВ` No. 2050-00)39
1	UN	FORM HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emer	gency Response	Phone	l 4. Manifest	Tracking Nu	mber		
$\ \ $	` γ	VASTE MANIFEST	C+R00007773				01535_50				<u>045</u> 3	JJK	
1		enerator's Name and Mailin	g Address			Generate	or's Site Address	if different the					
			LHOLDINGS U.C										
		iono mahoning	AVE, WARREN OH 4	M83									
	Gen	erator's Phone:	. 227 2440										
	6. Tr	ansporter 1 Company Nam	e						U.S. EPA ID	Number			
	ě		įV.				(746) &				PENGAN		
П		ansporter 2 Company Nam							U.S. EPA ID	Number	2.2.2.20.20.20.20.20.20.20.20.20.20.20.2		
	ž.	esignated Facility Name an							U.S. EPA ID	Number			
	- 100 F	ACHEAN DISP	CSALWASTE TREA	THENT PLANT									
		12.50 N. 1-84 SE		EVALE M 481									
	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1	eranara Pranara	多点数等性		
	9a.	9b. U.S. DOT Descript	on (including Proper Shipping Name,	Hazard Class, ID Number,			10, Contair	ners	11. Total	12. Unit	40 186	ata Cadaa	
H	HM	and Packing Group (if a	any))				No.	Туре	Quantity	Wt./Vol.	13. VVa	ste Codes	
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Ö	3	(SIGT (S61)							and they		KOĐ:		
Æ		Annual State of Annual State of State o	S among states at a second				001	2°%	13	'110			
GENERATOR		2.					**************************************					· · · · · · · · · · · · · · · · · · ·	and the same
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$\ \cdot\ $	H	4.	A THE RESIDENCE AND A STREET OF THE STREET O			****	***************************************						y2 -1007
	a-gwoard -							1					
11	14.	Special Handling Instruction	ns and Additional Information									<u> </u>	
,							g.						
П			******	L		1							
			80+	#521304	1	<u>L</u> ar							
	15.	GENERATOR'S/OFFERO	DR'S CERTIFICATION: I hereby dec	lare that the contents of thi	is consignment	t are fully a	and accurately de	scribed above	by the proper s	hipping name	, and are classi	ied, packaged,	
		marked and labeled/placa Exporter I certify that the	rded, and are in all respects in prope contents of this consignment conform	r condition for transport ac n to the terms of the attach	cording to appli ed EPA Acknox	licable inte wledamen	ernational and nati Lof Consent.	onai governn	ientai regulationi	s. If export sn	ipment and I arr	, the Primary	7 - 1 mg/
			nimization statement identified in 40 (ill quantity ge	nerator) is true.				
	Ger	erator's/Offeror's Printed/T	yped Name		S	gnature	1				Month		
1		Dostiv	MOLKID				Andrew Commencer					5 1	, L
INT	16.	International Shipments	Import to U.S.		Export from	U.S.	Port of er	try/exit:					
Ž	Tra	nsporter signature (for expo			'		Date leav	ng U.S.:				· · · ·	
E	17.	Transporter Acknowledgme									MUNICHESONO		
TRANSPORTER	Tran	nsporter 1 Printed/Typed Na	÷ .6		Si	gnature	A	Leon Co.	Complete State of the State of		Month		
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A	Tra	nsporter 2 Printed/Typed Na	ame		, Si	gnature	paragraph .	No. of the last of			Month	Day Yea	ar
E		WWW.				, .				A Brook Comment			
1	18.	Discrepancy											
Ш	18a	. Discrepancy Indication Sp	ace Quantity	Type		[Residue		Partial R	eiection	Ë	Full Rejection	
	Ì		44,							•		•	
						N	lanifest Reference	Number:			water-		
I≧	18b	. Alternate Facility (or Gene	erator)						U.S. EPA ID	Number			
5													
£	Fac	ility's Phone:											
	180	. Signature of Alternate Fac	sility (or Generator)								Mont	h Day Ye	ear
AM													MINO
DESIGNATED FACILITY	19.	Hazardous Waste Report N	Management Method Codes (i.e., cod	es for hazardous waste tre			cycling systems)						
۲	1.		2.	-	3.				4.				
1		1111	<u> </u>					······································		er	.,		
			or Operator: Certification of receipt o	f hazardous materials cove		military const	ept as noted in Ite	n 18a 🗸					
	Prir	ted/Typed Name	March Committee		\$	ignature		Notes of the second	1		Monti	n Day Ye	аг
11			185 Wall	1 1			7	1			- · I()		2012

Please wrint or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

Piece	—	nnt or type, (Form design	1. Generator ID Number	piccii) typewikei.)	2 Page 1 of	3. Emergency i	Paenanea Phr	nno.	4. Manifest		Approved. On	10 NO. 200	30-0038
$ \uparrow$		FORM HAZARDOUS VASTE MANIFEST	1, Cellerator ID National		2.1 age 101	(SDC) S3	•	J. I.C	01	474	6387	' JJI	K
۱	5. Ge	enerator's Name and Mailin	g Address	Č		Generator's Site	Address (if di	ifferent than	mailing addre	ss)			
. 1		OMMONANOM COM											
		erator's Phone: (330)					we.						
П		ansporter 1 Company Nam				* * ?	161.642	.1214	U.S. EPA ID I	Number	72/15/47)		
	l	ansporter 2 Company Name				400	*****	14% 2 1	U.S. EPA ID I		. @2.02.00 B /02		*********
	8, De	esignated Facility Name and	d Site Address	REATMENT PLAN					U.S. EPAID I	Number			
	48	9350 N. 1-94 SE	WICE DRIVE	KUEVILE MAS	111								
	Facil	lity's Phone:	502-5450				***************************************			000072	4831		-100mmmoons/7
	9a. HM	1		ng Name, Hazard Class, ID Numb	oer,		0. Containers	Туре	11. Total Quantity	12, Unit Wt./Vol.	13. Was	ste Codes	
	7.5	1 40) 2 2 2 2 2 2 2	hazapholis X	ASTE, SQLID, N.O.S	s s PGII		10.	1300			K061		
ATO A		DUST KON1).	ing 171				0	CM		\$	1. 1000	• •	
GENERATOR	ļ	2.		and the second s				#		**************************************	10.700000000000000000000000000000000000		
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	14. 8	Special Handling Instruction	s and Additional Information	n									
i		Eggs and a second											
		nox#we	1410(240)										
	15.	marked and labeled/placar	ded, and are in all respect	ereby declare that the contents of s in proper condition for transport	according to app	licable internation	al and nationa						
		Exporter, I certify that the of certify that the waste min	contents of this consignme imization statement identifi	nt conform to the terms of the atta ed in 40 CFR 262.27(a) (if I am a	ached EPA Ackno Llarge quantity ge	wledgment of Cor nerator) or (b) (if I	isent. am a small qu	uantity gene	rator) is true.	,		·	
		erator's/Offeror's Printed/Ty	ped Name	<i>j j</i>		gnature //	······	1 . I	(Month	Day	Year
<u></u>	16 1	International Shipments	Crane	Mora		Sand Sand John M.		Market Sandar	were	***************************************	17	A. A. A. A. A. A. A. A. A. A. A. A. A. A	13
I.L.	Tran	nsporter signature (for expo	Import to U.S. rts only):		Export from		Port of entry/e Date leaving t						
		Transporter Acknowledgmen	t of Receipt of Materials										
TRANSPORTER	i ran:	sporter 1 Printed/Typed Nat	me		Si	gnature		Z.	Vitilu	ngain	Month I ⊜ √	Day	Year
ANSI	Tran	nsporter 2 Printed/Typed Na	me		S	gnature					Month	Day	Year
TR	_		The state of the s		No.			25		# 1			
	-	Discrepancy . Discrepancy Indication Spa	ace	[]					<u> </u>		<i></i>		
	100.	. Division in a cast of the	Quantity	<u></u> Туре		L Kes	sidue	!	Partial Re	jection	L	Full Reject	tion
	195	. Alternate Facility (or Gener	estar)			Manifest	Reference Nu	mber:	U.S. EPA ID	Number			
	,,,,,	. Alternate Facility for Gener	awij						0.0. El / (ID	Hallibai			
FA(Facil	ility's Phone:							<u> </u>	,			
ATE	18c.	. Signature of Alternate Faci	lity (or Generator)								Month	Day	Year
DESIGNATED FACILITY	19.1	Hazardous Waste Report M	anagement Method Codes	(i.e., codes for hazardous waste	treatment, dispos	sal, and recycling	systems)						<u> </u>
H	1.	***************************************	2.	Wilder W. Co.,	3.				4.				1
	20. 1	Decimated Earlity Owner	ur Operator: Certification of	receipt of hazardous materials or	overed by the ma	nifest eveent ee n	nted in Item 10	Ra					
	·	Designated Facility Dwner of ted/Typed Name	a Operator, Certification of	receipt of nazaruous materials of		nifest except as n ignature	occupanem 10			/	Month	Day	Year
П		<i>),</i> -		I want	- 1	÷		3	2	V-tag			17

MCS Environmental Laboratory 438A Old Trolley Road Summerville SC 29485 Phone: 843-878-5788 Mobile: 843-810-6593 Famil: Marty@mcshannon.com

Analysis Report Date Reported: 3/8/07 3:39:11 PM

Auen: Mike Shannon Allegheny Raw Materials 269B Pleasantview Drive

PA 15059 Midland

Work Or	der#: 4015	Non Regulatory:	
Tania ata	Winner Por	Matten Dittel	

Project: Warren Bag Verified By: MAS

1-2 3-5 10 Requested Days to Complete:

Cooler 0a: 0 Received By: MAS On: 3/7/07 At: 12:05 Delivered By: USF # Containers: 3 # Samples: 3 Comments Don's Cell: 724-494-9581

Analyte	Result	Analyzed By	Method	D.L. SCLID	Lmt
Location: WBHD - I	Sampled: 3/5/07 At:		ample#: 6593	Matrix: SO	• • • • • • • • • • • • • • • • • • • •
Grab Composite Preservatives	Program: OTH	BR .			
Solid Sample Digestion for Metals	1.0 grams	3/8/07 10:00 MA	EPA 3050B		\supset
Total Aluminum	0.93 %	3/8/07 15:00 MA	S EPA 6010B	0,003	
Total Beryillum	ND %	3/8/07 15:00 MA	eoios aga e	0,002	
Total Cadmium	0.005 %	3/8/07 IS:00 MA	EPA 6010B	0.002	
Total Chrombum	d.8 %	3/8/07 15:00 MA	6010B	0.002	
Total Cobalt	0.008 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Copper	0.1 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Iron	25 %	3/8/07 15:00 MA	S EPA 6010B	0.002	D
Total Manganesa	7.0 %	3/8/07 15:00 MA	BOION AGE 8	0.002	\Box
Total Molybdenum	0.28 %	3/8/07 15:00 MA	\$ BPA 6010B	0.002	
Total Nickel	0.4 %	3/8/07 15:00 MA	5 EPA 6010B	0.002	
Total Tin	0.024 %	9/8/07 15:00 MA	S EPA 6010B	0.02	
Total Thanium	0.049 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Tungsten	0.15 %	3/8/07 15:00 MA	8 RPA 6010B	0.002	
Total Vanadium	0.023 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Zine	8.5 %	3/8/07 15:00 MA	8 EPA 6010B	0.002	
Location: WBHD - 2	Sampled: 3/5/07 At:	By: MOS S	iample#: 6594	Matrix: SO	
Grab 🐼 Composite 🗋 Preservative:	Program: OTH	er			
Solid Sample Digostion for Metals	1.0 grams	3/8/07 10:00 MA	S EPA 3050B	•	
Total Aluminum	0.9 %	3/8/07 15:00 MA	S EPA 6010B	0.003	
Total Beryllium	ND %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Cadmium	0.004 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Chromium	1.0 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Cobaic	0.008 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Copper	0.1 %	3/8/07 15:00 MA	S EPA 6010B	0.002	

Approved By:

3\

South Carolina Laboratory Identification Code: 18553

Martin Alan Shannon, Laboratory Director

Page 1 of 2



Phone: 849-878-5788 Mobile: 843-810-6598 Email: Marty@meshamon.com

Analysis Report Date Reported: 3/8/07 3:39:11 PM

Atten: Mike Shannon Allegheny Raw Materials 269B Pleasantview Drive

Midland

PA 15059

Non Regulatory; Work Order#: 4015 Project: Warren Bag House Dust

Verified By: MAS

Requested Days to Complete:

Received By: MAS On: 3/7/07 At: 12:05 Delivered By: USP # Containers: 3 # Samples: 3 Cooler 0c: 0 Comments Don's Cell: 724-494-9581

Analyte	Result	Analyzed B	y Method	D.L. SCLW	lmt
Total Iron	28 %	3/8/07 15:00 MA	\$ EPA 6010B	0.002	
Total Manganese	7.7 %	3/8/07 15:00 MA	S 2PA 6010B	0.002	
Total Molybdenum	0.43 %	3/8/07 15:00 TAL	S BPA 6010B	0,002	
Total Nickel	0.75 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Tin	0.02 %	3/8/07 15:00 MJ	S EPA 6010B	0,02	
Total Titurium	0,055 %	3/8/07 15:00 MA	S EPA 6010B	0,002	
Total Tungsten	0.15 %	3/8/07 15:00 MA	S EPA COICE	0,002	
Total Vanadium	0.025 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total 2Inc	7.3 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Location: WBHD-3	Sampled: 3/5/07 At:		Sample#: 6195	Matrix: SO	
Grab 🗹 Composite 🗌 Preservative:	Program: O				
Solid Sample Digestion for Metals	1.0 grams	3/8/07 10:00 MA	8 EPA 3050B		
Total Aluminum	0.92 %	3/8/07 YS:00 M14	s epa 6010b	0.003	
Total Baryllium	ND %	3/8/07 15:00 MA	80103 A43 8,	0.002	
Total Cadmium	0.006 %	3/8/07 15:00 M/	S EPA 6010B	0.002	
Total Chromium	9.8 %	3/8/07 15:00 MA	\$ 6PA 6010B	0.002	
Total Cobalt	0.007 %	3/8/07 15:00 M/	is epa goiob	0,002	
Total Copper	0.12 %	3/8/07 15:00 MA	BPA 6010B	0.002	
Total Iton	27 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Mangandse	6.9 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Molybdenum	0.29 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Nickel	0.7 %	3/8/07 15:00 MJ	S EPA 6010B	0,002	
Total Tin	0.028 %	3/8/07 15:00 MJ	S EPA 60108	0.02	
Total Tiranium	0.05 %	3/8/07 15:00 MA	S EPA 6010B	0.002	
Total Tungsten	0.2 %	3/8/07 15:00 M/	S EPA 6010B	0,002	
Total Vanadium	0,023 %	3/8/07 15:00 MA	S EPA 6010B	0,002	
Total Zinc	10 %	3/8/07 15:00 MA	S EPA 6010B	0.002	

Approved By:

17 #

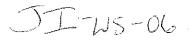
Martin Alan Shannon, Laboratory Director

17247732242

South Carolina Laboratory Identification Code: 18553

Page 2 of 2

;Warren Steel Holdings 07-13-09:18:25



CEL Cardinal Laboratories, Inc.

2870 Salt Springs Road Youngstown, Ohio 44509

Ph: (330) 797-8844 • Fax: (330) 797-3264 • 1-800-523-0347

E-mail: cel@cardinalenvirolabs.net

Laboratory Analysis Report

Client:

ODYSSEY ENVIRONMENTAL

Attn: STEVE GRUBBER

5752 W. WEBB RD

YOUNGSTOWN, OHIO 44515

Date Sampled: 3/14/2012

Time Sampled: 16:00

Date Received: 3/15/2012

Report Date:

3/28/2012

Comments:

Lab Number: Sample ID:

212031502

SLUDGE PRESS CAKE

Sample Description:

Sampler Name:

30-107%

0.05

0.05

0.05

0.05

0.05

8082

8260/5030

8260/5030

8260/5030

8260/5030

8260/5030

8260/5030

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3/21/2012

3/19/2012

3/19/2012

3/19/2012 3/19/2012

3/19/2012

LARRY FRANGOS Jr.

Sample Matrix:

PO#

Sludge

* Denotes matrix in	nterference		į			
Analyte	Result	Unit	Detection Limit	Method	Analysis Date	Analyst
Ignitability/Flashpoint	>180	°F		1010	3/16/2012	DT
Mercury	BDL	mg/L	0.0008	7470	3/19/2012	TP
Paint Filter Liquids Test	NO FILTRATION	mL/100 g	1.0	9095A	3/15/2012	DT
pH	8.74	S.U.		9045 D	3/15/2012	TP
Prep				3510	3/21/2012	1b
Prep - ICP Metals	•		.	6010	3/16/2012	ŢР
Prep - PCB	•			3550	3/20/2012	JР
TCLP-Extraction (Initial pH)	8.88	S.U.		40CFR 1311	3/15/2012	TP
Arsenic	BDL	mg/L	0.500	6010	3/16/2012	TP
Barium	0.563	mg/L	0.100	6010	3/16/2012	TP
Cadmium	BDL	mg/L	0.100	.6010	3/16/2012	TP
Chromium	BDL	mg/L	0.100	6010	3/16/2012	TP
Lead	BDL	mg/L	0.300	6010	3/16/2012	TP
Selenium	BDL	mg/L	0.500	6010	3/16/2012	TP
Silver	BDL	mg/L	0.100	6010	3/16/2012	TP
Polychlorinated Biphenyls (PCBs)	•			8082		
PCB-1016	BDL	mg/kg	1	8082	3/21/2012	JР
PCB-1221	BDL	mg/kg	2	8082	3/21/2012	JP
PCB-1232	BDL	mg/kg	1	8082	3/21/2012	JР
PCB-1242	BDL	mg/kg	1 1	8082	3/21/2012	JР
PCB-1248	BDL	mg/kg		8082	3/21/2012	JP
PCB-1254	BDL	mg/kg	1	8082	3/21/2012	JР
PCB-1260	BDL	mg/kg		8082	3/21/2012	JР
SURROGATES		- 5 5	<u> </u>	8082		
TCMX	51		23-123 %	8082	3/21/2012	JP
			 			

mg/L

mg/L

mg/L

mg/L

mg/L

42

BDL

BDL

BDL

BDL

BDL

Lab Number: 212031502

TCLP-Volatiles (VOC)

Carbon Tetrachloride

1,2-Dichloroethane

Chlorobenzene

Chloroform

DCBP

Benzene

CEL Cardinal Laboratories, Inc.

		and the second second second second second second second second second second second second second second second				
1,1-Dichloroethene	BDL	mg/L	0.05	8260/5030	3/19/2012	JP
2-Butanone	BDL	mg/L	0.5	8260/5030	3/19/2012	JP
Tetrachloroethene	BDL	mg/L	0.05	8260/5030	3/19/2012	JP
Trichloroethene	BDL	mg/L	0.05	8260/5030	3/19/2012	JP
Vinyl Chloride	BDL	mg/L	0.1	8260/5030	3/19/2012	JР
SURROGATES		_		8260/5030		
Dibromofluorobenzene	112		86-118%	8260/5030	3/19/2012	JP
Toluene-d8	94		88-110%	8260/5030	3/19/2012	JP
Bromofluorobenzene	92		86-115%	8260/5030	3/19/2012	JP
TCLP-Semi-Volatiles				8270		
*	BDL	mg/L	0.2	8270	3/27/2012	JP
Cresols	BDL	mg/L	0.04	8270	3/27/2012	JP
1,4-Dichlorobenzene	BDL		0.04	8270	3/27/2012	JP
2,4-Dinitrotoluene	BDL BDL	mg/L	0.04	8270 8270	3/27/2012	JP
Hexachlorobenzene		mg/L	0.04	8270 8270	3/27/2012	JР
Hexachlorobutadiene	BDL	mg/L	0.04	8270 8270	3/27/2012	JP
Hexachloroethane	BDL	mg/L	0.04	8270 8270	3/27/2012	JP
Nitrobenzene	BDL	mg/L		8270 8270	3/27/2012	JP
Pentachlorophenol	BDL	mg/L	0.2	= =	3/27/2012	JP JP
Pyridine	BDL	mg/L	0.1	827 0		JP
2,4,5-Trichlorophenol	BDL	mg/L	0.2	8270	3/27/2012	
2,4,6-Trichlorophenol	BDL	mg/L	0.2	8270	3/27/2012	JP
SURROGATES	_			8270	0/07/0010	TD
Nitrobenzene-d5	67		35-114%	8270	3/27/2012	JP
2-Fluorobiphenyl	95		43-116%	8270	3/27/2012	JP
p-Terphenyl	129		33-141%	8270	3/27/2012	lb.
2-Fluorohenol	8 *		25-100%	8270	3/27/2012	JP
Phenol-d6	12		11-94%	8270	3/27/2012	ſΡ
2,4,6-Tribromophenol	5 *		15-123%	8270	3/27/2012	JP

BDL = Below Detection Limit

Results approved by:

John Pflugh, Lab Manager _	
Tricia Presco, Chemist	66
Wendy Hanna, Customer Re	ations

Ohio EPA Drinking Water Certification: 1549, 898 Pennsylvania Laboratory Registration: 68-948

Lab Number: 212031502

CHAIN OF CUSTODY CARDINAL ENVIRONMENTAL LABORATORIES 2870 SALT SPRINGS ROAD, YOUNGSTOWN, OH 44509

Billing	Information	(If different	from Custome	r Information)
	****************	(31 (3)))(1)	DOME COSCINE	

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[] I authorize EQ - The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below. Michigan Disposal Waste Treatment Plant EPA D# MID 000 724 831 49350 N. I-94 Service Drive: Bollevillé, MI 4811 I Phone: 800-592-5489 Fax: 800-192-5329 (Stabilization and Treatment) 49350 N. I-94 Service Drive, Belleville, MI 48111 Wayne Disposal, Inc. Site #2 Landfill Fax: 800-592-5129 (Hazardous & PCH Waste Landfill) Phone: 800-592-5489

EO Detroit, Inc. (Stabilization, Wastewater Treatment) EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment) EO North Carolina (Stabilization, Treatment, Labpack Decommissioning) EO Florida, lac. (Drum Consolidation, Labrack Decemnissioning) EQ Transfer & Processing

(Drum Transfer/Universal Waste Handling) EQ Indianapolis

(Drum Transfer/Non-Hazardous Waste Processing) EQ Atlanta

(Drum Transfer/Non-Hazardous Waste Processing) EQ Augusta, Inc.

(Wastewater Treatment)

1923 Frederick Street, Detroit, MI 48211 Fax: 313-923-3375 Phone: (313) 923-0080 36345 Van Born Road, Romulus, Mt 48174 Phone 866-373-8357 Fax: 734-326-4033 1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Tax 919-363-4714 7202 East 8th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax 813-628-0842 2000 Ferry Street, Detroit: MI 48211 Fax: 313-922-8419 Phone: 313-923-0080 4000 West 10th Street, Indianapolis, BV 46222 Phone: 317-247-7160 Fax: 317-247-7170 5600 Fulton Industrial Blvd SW Atlanta, GA 30336 Fax: 404-494-3560 Phone: 404-494-3520 3920 Goshen Industrial Hwd. Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124

EPA |Di# MID 048 090 633 EPA ID# MID 980 991 506 EPA ID# MID 060 975 844 EPA ID# NCD 982 170 292 EPA ID# FLD 981 932 494 EPA 10# MIK 939 928 313 EPA-ID# IND 161 049 309 EPA ID# GAR 000 039 776

EPA ID# GAR 000 011 817

Wasto Common Name: K061 ELECTRIC ARC DUST

SIC/MATCS*

Section 1 - Generator & Customer Information

Generator EPA 10 # OHR000007	773
Generator WARREN STEEL HOL	DINGS LLC
Facility Address 4000 MAHONING) AVE
City WARREN State OHIO Zip 44	483
County TRUMBULL	
Mailing Address SAME	
City State Zip	
Generator Contact HOPE DROPP	
Tide ENVIRONMENTAL MGR.	1
Phone 330-979-5857 Fex	

*For a list of NAICS codes, please refer to Section 9 of the EO

Resource Ouide.

Internal Use Only: EQ Division EQ Customer No. 848 Invoicing Company American Waste Management Services Address One American Way City Warren State OH Zie 44484 Country USA Invoicing Contact Paula Monske Phone (330)856-8850 Fee (330)855-8484. Technical Contact TOM VEAJKOVICH Phone 330-283-6825 Fax Mohile Pager E-mail

Section 2 - Shipping & Packaging Information

2 1) Shipping Volume & F	requency 40	0	
One Time Only	Year	Quarter	Month
1.2) DOT Shipping Name I	RQ, HAZAF	dous Waste	SOLID, NOS
(3) lá this waste surcharge Tyes, please stack a surcharge		Yes one, found in Secti	
tusniirca Філіфа,	;		

Bulk Solid (Yd ^x < 2000 ibs/yd ²)
Bulk Solid (Ton >2000 lbs/yd1)
Bulk Liquids (Culfon)
Totas, Size
Cubic Yard Hoxas/Bigs
Drums, Size
Other (paltetized, 5 gai, Pail, etc.)
Quoted bulk disposal charges for golid material
the waste density is less than 2 (03) his feature yo

2.4) Packaging (check all that apply)

Is will be hilled by the cubic yard, if ard. If waste density is greater than 2,000 ibs out ic yard, then bulk disposal charges will be billed by the tun, regardless of the approved container.

2.3 PLAN SIGNATURE AND REVIEW

The SWPPP must be signed by either the permittee or an authorized representative in accordance with 40 CFR 122.22. The required signatures for this plan are provided on the Certification page at the front of this plan.

The SWPPP will be reviewed and amended as needed to ensure continued compliance with the Facility's NPDES Permit. A review of the SWPPP will be performed under the following circumstances:

- Annually;
- In the event of a spill that impacts storm water and this plan is found to be inadequate in preventing or responding to the spill;
- In the event of the addition of any new sources of significant materials; and
- In the event of a change in operations which will have a significant effect on the potential to contaminate storm water runoff.

Section 7 - Physic	cal Characteristics	
	per fashi dentes areas	
	1 de maria de la compansión de la compan	P1 x -
3.1) Does this waste contain any "Potentially Odonous Constituents" as defined 3.4) Physical State at 70°E: Solid DustPot		ks. 🖾 No
3.5) What is the pH of this waste?	☐ 5-10 ☐ 10.1-12.4	212.5
1.6) What is the flash point of this waste?	F ☐ 140-199°F . ☐ >200°F ☐ Free Liquids ☐ Oily Residue	☐ Metal Fines
Biodegradable Sorbants	ia Water Reactive [Bioliazard	Aluminum
Shock Sensitive Waste: Reactive Waste Radioac	hve Waste Explosives	Vasta 🔲 Isocyanates
Asbestos - non-friable Asbestos - friable Dioxins	ion and Generating Process	
	· · · · · · · · · · · · · · · · · · ·	
4.i) Describe the physical composition of the waste (i.e., soil, water, PPE, debri	is, key chemical compounds, etc.)	
RUST 50 to 60 % to %		
DIRT 50 to 60 % to %		
	Ţ	otal: 100%
4.2) Provide a detailed description of the process generating this waste (attach to DUST GENERATED FROM STBEL, MANUFACTURKING WITH ELECETR		
Section 5 - Is This	Hatardous Waste?	**************************************
Please rafer to Section F of the EQ Re	source Guide for a list of waste cades	
As determined by 40 CFR, Part 261 and State Rules:	Please list applicable west	t code(#):
	¥ Yes ☐ No K061	
5.2) is this an EPA RCRA characteristic hazardous waste (D001-D043)?	Yes 🗵 No	
5.3) Do any State Huzardous Waste Chilos apply?] Yes 🔯 No	
5.4) Is this waste intended for wastewater (resument)	TYes ♥ ⊠ No	
If you answered 'no' to S.I, S.I, and S.I. please skip in Section 7. "If you	answered 'yes' to 5.4, please attack the Waste	Characterization Report
	7 of the EQ Resource Guide.	
Section 6 - Ha: 6.1) Does this waste exceed Land Disposal Restriction levels?	iaraous wastes	. ⊠Yes □NO
6.1a) If this waste stream is greater than 50% sail, does it meet the al	ternative soil treatment standards of 40 CFR 268.	
6.1b) Does this waste contain greater than 50% debris, by volume? (1		☐ Yes ☑ No
6.3) Is the waste an oxidizer (D001)? 6.3) Does this waste contain reactive cyanide \(\to 256 \text{ ppm (D003)}\)?		Ves No
(a) Does this waste contain reactive sulfide 2 500 ppm (D003)?		Yes SiNo
6.5) Please indicate which constituent concentrations are below or above the reg	ulatory level. Please indicate the hasis used in the	determination, Lither
"Below" or "Above" MUST be checked for each constituent.		
Based On: Separator Knowledge	☐ Analysis* ☐ MSDS*	
*Please attack's copy. Analysis or MINDS are	required for EQM. Non-hazardous wastes.	
Code Regulatory Level Concentration	Code Regulatory Level	Concentration
TCLP (mg/l) (if above) D004 Arsenic 5 M Bolow Above	TCLP (mg/l)	(if above)
D004 Arsenic 5 Below Above D005 Barium 100 Below Above	D024 m-Cresol 200 D025 p-Cresol 200	Below Above
D006 Cadmium MBctow Above	D026 Cresols 200	Below Above Below Above
D007 Chromitin S Brow Above D008 Lead S Brow Above	D027 1.4-Dichlorobenzene 7.5	Below Above
D009 Merdury 0.2 Z Below Above	D028 1,2-Dichaloroethane 0.5 D029 1,1-Dichloroethylene 0.7	Below Above Above
Dolo Seleptum i 🔯 Below 🗒 Above	D030 2.4-Dinitrotolucus 0.13	Below Alxive
D011 Silver 5 Below Above D012 Endrin 0.02 Below Above	D031 Heptschlor 0.008 D032 Hexachlorobengene 0.13	Below Above
D013 Lindane 0.4 Bekiw Above	D032 Hexachlorobengene 0:13 D033 Hexachlorobittsdiene 0.5	☑ Below ☐ Above ☑ Above
D014 Methoxychior 10 Below Above	D034 Hexachloroethank 3.0	Below 🖸 Above
D015 Toxaphene 0.5	D035 Methyl Ethyl Ketone 200 D036 Nitrobonzone 2	Below Above
10016 2,4-b 10 Below Above 10017 2,4,5-TP (Silvex) 1 Below Above	D036 Nitroponzene 2 D037 Pentauhleraphenal (00	⊠ Below □ Above Below □ Above
DOIS Benzene 0.5 Seinv Above	D038 Pyridise 5	🔀 Balow 🔲 Above
D019 Carbon Totrachloride 0.5 Below Above D020 Chlordane 0.03 Below Above		Below Above
D021 Chlorobenzene 100 K Below Above	D040 Trichloroethylche 0.5 1	Below Above
D022 Chloroform 6.0 Below Above	D042 2,4,6-Trichlorophonn 2	🔯 Below 🔲 Above
D023 o-Cresol 200 Below Above	D043 Vinyl Chloride 0.2	Balow 🗋 Above
6.6) If this is a characteristic hazardous waste, does it contain underlying hazardo	us constituents?	Yes 🛄 No
If yes, please list the constituents in Section 11.		• • •
	· · · · · · · · · · · · · · · · · · ·	
		1
@ EQ-The Environmental Quality Company		n!'4 (8(ns)

8		
	Section 7 - Non-Hatardous Wastes	
i.	For a complete list of non-hazardane wasta codes, please refer to Section 7 of the EQ Revource Guid Pleases list	e . applicable waste code:
1	7.1) Is this a <u>Mühligan non-haznotous</u> liquid inclus(rial waste? Yes 📓 No	approximate transcription
	7.2) Is this a <u>Universal waste?</u> 7.3) Is this a <u>Recyclable Community?</u> (e.g., coppnuer monitors, free mentury, etc.) [] Yes	;
K	7.4) Is this waste a recoverable petrolaum product?	
	7.5) is this waste used oil as defined by 40 CFR Pan 279° Yes* Si No If you answered 'yes' to questions 7.4 or 2.3 please uttack the Weste Characterization Report Addendum francis in Section 7 of h	hs EQ Resoures Gulde,
; i (; :	Section 8 - TSCA Information 8.1) What is the conventration of PCBs in the waster 8.2) What is the conventration of PCBs in the waster 8.3) What is the conventration of PCBs in the waster	199 ppm — ☐ 500+ ppm
	8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm?	indd +00t ☐ No
	If you answered "no" to 8.1 and 8.2, please ship to Section 9. 8.3) Has this waste been processed into a non-liquid form?	≅ □No
į.	If yes, what was the concentration of PCBs prior to processing?	49 9 ppm □ 500+ ppni
r i	8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media?	
S. Sv. s	8.6) Has the PCB Article (e.g., transformer, hydrautic machine, PCB-communited electrical equipment)	
١,	been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.50(b)? SIN/A Ye	B No
ر نادة	Section 9 - Clean Air Act Information	(2001)
	NESUAP SIC* 9.1) is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 284, Subpart CC (Does the waste contain >510) part Volatile Organic Hazardous Air Pollotants - VOHAP's or Volatile Organic	le Compounds - VOC's?)
	1812 2836 2875 For a complete list of YOHAP's, please see Section 11 of the Eig Resource Guide 2841 2879 9.2) Is the site, or woste, subject to any other MACT or NESHAP? 1 Yes, nicese specify:	∉: ⊠No
	8.6 (842 289) 9.3) Does this waste stream contain Renzenc?	☐ Yes ☐ No
2	1821 1844 2893 If you drivered the to 2.1, pleasy skip to section 10.	i VESHAP identified
	1022 2637 (a 40 CFR 61. Subpart FF?	: 🗌 Yes 🔞 No
	9.5) Is the generating source of this waste stream a facility with Total Anomal Benzone (TAB) > 10 Mg/year/ 1831 2869 3312	☐ Yes ☑ No urec Guide
- 2	16 you answered "no" in question 9.4 und 9.5, please skip to Section 10.	Yes 🖾 No
1	1835 2874 9511 9.7) What is the TAB quantity for your facility? Mg/Year	
Ÿ.	9.8) Does the waste contain >1.0 mg/kg total Benzene? 9.9) What is the total Benzene concentration in your waste? Percent or	Yes No
5 . 3	(Supporting analysis must be attached. Do purjuse TCLP analytical results. Acceptable laboratory methods include \$820, \$246, *For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.	\$260, 602 and 634)
41 . 1-	Section 10 - Fuel Blending Information	
Š	10.1) is this waste intended for fuel blending? "If yes, Heat value (BTU/Ib.) Chlorine (%) Water (%) Solids (%)	
۶.		
	10.2) is this waste intended for reclamation? Yes No (5-Gallon Sample required to	r an rectum waste steams!
ry N	Section 11 - Constituent Information	
	Please identify your waste constituents from these four entergories. Underlying Hazardous Constituents (UHC's), Volatile Organi (VOLIAP's), Volatile Organic Compounds (VOL's) and Toxic Release Inventory Constituents (TRI)	ie Hazardous Air Pollutauts
:-		
	Constituent Concentration UHC? Constituent Concentration	NHC.
	DOOE LEAD X Yes \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \ \text{I No } \ \text{I Yes } \text{I Yes } I	
: -	Yes. No	· •
	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No	
		•
	Please sea Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, pleas	: se refor to 40 CFR 172.65.
	Section 12 - Certification	- American recommendation and the Total Control of the State of the St
Š.	f certify that all information (including attachments) is complete and factual and is an accurate representation of the known and at	uspected hazards, pertaining
٠	to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provide verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verlification and c	ied I am contacted and give
•	EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on subject to, and Generator shall be bound by, the introduct Standard Terms and Conditions.	Generator's behalf shall in
	V = I + I + I + I + I + I + I + I + I + I	. A
•	Generator Signature Negl Way Printed Name Hope	neobo
:	Company Title Date Warren Steel Holdings 3	112/07
	The generator suggested and appear on the perfect control of the c	to cartify this document a
•	written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make conformation provided on this form, the addition or removal of waste codes and waste constituents must be documented by the general	sertain modifications to the Nor.
-		

JI-W5-08

STORM WATER POLLUTION PREVENTION PLAN

for

Warren Steel Holdings, LLC 4000 Mahoning Avenue Warren, Ohio 44483

Prepared by:

Horizon Environmental Corporation 4771 – 50th Street SE, Suite One Grand Rapids, MI 49512

September 1, 2011

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FIGURES

Figure 1 Site Location Map Figure 2 Facility Layout

APPENDICES

Appendix A NPDES Permit Appendix B Site Spill History

Appendix C Sample Recordkeeping Forms

CERTIFICATION

Storm Water Pollution Prevention Plan Warren Steel Holdings, LLC 4000 Mahoning Avenue Warren, Ohio 44483

I hereby certify that this Storm Water Pollution Prevention Plan has been prepared for the Warren Steel Holdings, Warren facility and to the best of my knowledge this plan has been prepared in accordance with good engineering practices. I have personally examined and am familiar with the information submitted in this document and that based on my inquiry of those individuals responsible for obtaining the information I believe that the submitted information is true, accurate and complete.

Warren Steel Holdings, LLC - Management					
Mark Trapp, Chief Operating Officer	Date				
Storm Water Pollution Prevention Plan - Adn	ainistrator				
Chris Green, EHS Manager	Date	· · · · · · · · · · · · · · · · · · ·			

1 GENERAL FACILITY INFORMATION

Name of Facility:

Warren Steel Holdings, LLC

Facility Address:

4000 Mahoning Avenue

Warren, Ohio 44483

Standard Industrial classification (SIC) Code: 3312

Responsible Official:

Name:

Mark Trapp

Title:

Chief Operating Officer

Telephone:

330-847-0487

Mailing Address:

4000 Mahoning Avenue

Warren, Ohio, 44483

Owner:

Warren Steel Holdings, LLC

Operator:

Warren Steel Holdings, LLC

Permit Information:

Type: NPDES

Permit Application Number: OH0011207 Ohio EPA Permit Number: 3ID00050*JD

Effective Date: August 1, 2008 Expiration Date: January 31, 2012 Number of Storm Water Outfalls: 1 Receiving Waters: Mahoning River

Technical/Emergency Contact:

Name: Chris Green Title: EHS Manager

Telephone: 330-847-0487

2 OVERVIEW

2.1 Introduction

Warren Steel Holdings, LLC ("WSH") owns and operates the steel mill located at 4000 Mahoning Avenue in Warren, Ohio (the "Facility"). This storm water pollution prevention plan ("SWPPP") covers the operations at the Facility. It has been developed to meet the requirements of the Facility's National Pollutant Discharge Elimination System ("NPDES") Permit No. 3ID00050*JD presented in **Appendix A**. The SWPPP describes the Facility and its operations, identifies potential sources of storm water pollution at the Facility, recommends appropriate best management practices ("BMPs") or pollution control measures to reduce the discharge of pollutants in storm water runoff, and provides for periodic review of this SWPPP.

The Facility is located in the City of Warren, Trumbull County, Ohio. The site location is illustrated on Figure 1. WSH operates an electric arc furnace ("EAF"), ladle refining furnace ("LRF"), molten metal caster, and ancillary supporting equipment at the Facility. Scrap metal is brought on site, melted in the EAF and refined in the LRF, cast into bars, and then shipped offsite. Process water from the Facility is collected and transferred into treatment lagoons. Storm water that is not absorbed into the ground is also accumulated into the lagoons. The combined process and storm water in the lagoons is processed in the Facility's waste water treatment plant and either returned to the Facility for use within steel production operations, or discharged to the Mahoning River under the provisions of the NPDES permit.

2.2 OBJECTIVES

The goal of the storm water permit program is to improve the quality of surface waters by reducing the amount of pollutants potentially contained in storm water runoff being discharged. All storm water discharges associated with industrial facilities that discharge to waters of the state are required to prepare an SWPPP as part of their NPDES permit.

The objective of this SWPPP is three-fold:

- 1. To identify potential sources of storm water pollution at the Facility;
- 2. To describe BMPs that are to be used at the Facility to minimize pollutants entering the storm water; and
- 3. To provide other elements such as, but not limited to, a Facility inspection program, site compliance evaluation program, and a record keeping and reporting program that will help the Facility minimize pollutants in the storm water.

Storm Water Pollution Prevention Plan

3 STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team includes management personnel to support and oversee the program, an administrator to assure the plan is followed and maintained, and supervisory and operating personnel to implement the program activities.

The member(s) of the team and their primary responsibilities (i.e. implementing, maintaining, record keeping, submitting reports, conducting inspections, employee training, conducting the annual compliance evaluation, testing for non-storm water discharges) are as follows:

Name & Title	Responsibility
Mark Trapp Chief Operating Officer	Management support for development, implementation, and maintenance of SWPPP.
Chris Green	Administration of SWPPP.
EHS Manager	General oversight of SWPP activities and SWPP team.
	SWPP team personnel training.
	Annual comprehensive inspection.
	Generate and submit reports.
Terry Krebs	Maintenance and repair programs.
Area Supervisor	Oversight of structural and non-structural controls.
Waste Water Treatment	Periodic inspections and recordkeeping.
System Operators	Assist in annual comprehensive inspection.
	SWPPP incident response activities.
	Periodic SWPPP review.
	Testing for non-storm water discharges, as required.

4 POTENTIAL SOURCES OF POLLUTANTS

4.1 FACILITY LAYOUT

Figures 1 and 2 present a layout of the Facility showing the following features:

- Property boundaries.
- Buildings and other permanent structures.
- Storm water discharge outfalls.
- Outlines of drainage areas contributing to each outfall.
- Areas of vegetation.
- Impervious surfaces (roof tops, asphalt, concrete, etc.).
- Names and locations of receiving waters.
- Structural control measures to reduce pollutants in the storm water runoff.
- Locations where major spills or leaks have occurred.
- Location of the following operations that are exposed to precipitation and/or storm water runoff: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; production areas; and storage areas.
- Locations where significant materials are exposed to storm water.

4.2 INVENTORY OF EXPOSED MATERIALS

A waste water treatment system is located at the Facility. WSH uses the treatment system to treat both process water and collected storm water, before it is discharged under its NPDES permit. The boundaries of the Facility are graded to prevent storm water from leaving the property through discharge points not associated with the waste water treatment system. Storm water falling on the site is absorbed into the ground surface in unutilized and unpaved portions of the Facility. Storm water falling on impervious surfaces or running off in the production areas is collected in the roof drains and surface catch basin system and ultimately discharged to the Facility's waste water lagoons, along with non-contact process cooling waste water used at the Facility. The water that has passed through the waste water lagoons is subsequently treated to remove suspended solids and dissolved metals and then either returned to the process for reuse, or discharged from Outfall 005 under the NPDES permit.

The potentially polluting materials WSH uses at the Facility are described below and located on Figure 2.

Gasoline and diesel fuel are stored outdoor at the Facility. There are two large aboveground fuel storage tanks with capacities of 10,000 and 20,000 gallons. These two tanks are empty and have been rendered inoperable. There are four smaller aboveground fuel storage tanks, one 3,000 gallon tank and three 1,000 gallon tanks. The 3,000 gallon tank and two of the 1,000 gallon tanks contain diesel fuel. The remaining 1,000 gallon tank contains gasoline. All four of these tanks are double walled, horizontal storage tanks.

Carbon, lime, and metallic alloys used in the steel production operations are stored indoors in the warehouse area and melt shop to minimize the potential for contact with storm water.

Oils are stored in totes and drums indoors to minimize the potential for contact with storm water. There are two main storage locations: the tool room in the melt shop and the compressor building.

Process water treatment chemicals are stored in drums, totes and fixed tanks inside the US Filter building. These chemicals are used to treat the noncontact cooling water and spray water in the melt shop. These chemicals are stored indoors and are not exposed to rainwater except during unloading operations.

Waste water treatment chemicals are stored indoors and outdoors in tanks, totes and drums at the wastewater treatment building. There are two outdoor storage tanks. The first tank is approximately 5,000 gallons and contains ferric chloride (FeCl₃). The second tank is used for sulfuric acid, but is currently not in use. These tanks are located in a concrete secondary containment area.

Waste roll-offs are located around the Facility for the collection of refuse. There are three to five roll-offs located at the Facility at a given time. The roll-offs are covered whenever waste material is not being disposed.

The scrap yard contains piles of ferrous scrap for use in the steel production operations. All scrap materials are inspected upon arrival at the Facility for oily residue or particulate contamination, and rejected prior to final delivery if found to be unacceptable. The piles in the scrap yard are maintained to minimize the effects of rainwater impacts and runoff.

The slag yard contains piles of residual slag from the melt shop until it can be shipped offsite for further use. The piles in the slag yard are maintained to minimize erosion and rainwater runoff.

4.3 LIST OF PAST SPILLS AND LEAKS

A list of oil and other polluting materials that have been spilled or leaked at the Facility from three years before the issuance of the NPDES permit until the present date are included in **Appendix B**. Also included is the date, volume of materials, the exact location of each release, and the actions taken to clean up the materials and/or prevent exposure of the materials to storm water runoff and subsequent contamination of surface waters of the state.

As of the current revision of this SWPPP, no significant spills of polluting materials have occurred.

4.4 SUMMARY OF SAMPLING DATA

The storm water falling on the Facility is either absorbed into the ground or combined with the process waste water and treated to meet the NPDES permit discharge limits before being discharged from the site. Because all the captured storm water is combined with process waste water, and treated before being discharged, there is no sampling data specific to solely the storm water or dedicated storm water discharge points.

4.5 RISK IDENTIFICATION AND SUMMARY OF POTENTIAL POLLUTANT SOURCES

Outdoor loading/unloading of chemicals at the Facility includes the transfer and storage of oil, diesel fuel, and gasoline to and from the storage tanks. Gasoline, diesel fuel, and oil has the potential to be a source of pollutant due to dripping during filling of the tank, dripping when the material is transferred from the tank to the vehicles on site, or leaks or spills from the storage tank. Only the ferric chloride tank loading and storage at the waste water treatment facility occurs totally outside and is potentially exposed to storm water. All other chemical tank (e.g., the bulk process water chemicals at the US Filter building) and container (drums and totes) loading/unloading and storage operations occur within buildings or at loading dock locations, with minimal potential for storm water exposure.

Outdoor storage of ferrous scrap and byproduct slag occurs to the south of the steel production operations. Incoming scrap is subjected to visual inspection for oil and particulate contamination, and rejected if found to be unacceptable, as outlined in WSH's Scrap Management Plan. The slag material is generated as a byproduct of steel production, and results in the storage and processing of the dry, granular material after it has cooled. Both the scrap and slag are maintained in piles and managed in a manner to minimize storm water impacts. Slag processing occurs in a manner to minimize impacts to storm water and to minimize the generation of airborne particulate.

7

5 STORM WATER MEASURES AND CONTROLS

5.1 Non-Structural Controls

The practices outlined herein are specifically intended to reduce the likelihood of polluting materials and storm water interaction, and the subsequent potential for polluting materials entering surface waters of the state. Non-structural controls are generally implemented to address the problem at the source and do not require any structural changes to the Facility. The non-structural controls used at the Facility include:

Good Housekeeping Practices

Good housekeeping practices are designed to maintain a clean and orderly work environment. This will reduce the potential for polluting materials to come in contact with storm water. The following are included in the Facility's good housekeeping practices:

- Routinely inspect material storage and process area floors, cleaning as necessary.
- Routine inspection of paved/unpaved areas for debris and improper storage of materials/equipment.
- Routine inspection of paved/unpaved areas for signs of polluting material impacts.

Preventive Maintenance

Preventive maintenance involves the regular inspection, testing, cleaning and repair of Facility equipment and operational systems. These inspections will help to uncover conditions which might lead to a release of polluting materials. Preventative maintenance inspections and a record of maintenance activities will be maintained at the Facility. The following equipment/activities are included in the preventive maintenance program:

- Monthly inspections of gasoline and diesel fuel tanks.
- Monthly inspections of oil storage areas.
- Monthly inspection of dry material storage areas.
- Monthly inspection of storm water catch basins.
- Monthly inspection of process water treatment plant.
- Monthly inspection of waste water treatment plant.
- Monthly inspection of secondary containment systems.
- Semiannual inspection of Outfall 005 and waste water lagoon areas for erosion and other damage.

Spill Prevention and Response Procedures

Spill prevention and response measures identify areas where potential spills can occur, and identify the accompanying drainage/outfall points. A record of all spills or leaks including a description of the spill and the quality and quantity of storm water discharges due to the spill shall be maintained. The following procedures have been developed for spill response for the Facility.

Area	Materials Present	Response Action	Outfall
Gasoline, diesel fuel, and oil storage areas	Fuels and oils	Deploy absorbent booms and absorbent materials to control oil spill or sheen in storm water; replace as needed.	005
Liquid chemical storage areas	Water and waste water treatment chemicals	Contain spilled liquids within existing containment areas or with temporary berms. Collect and properly dispose of liquids.	005
Dry materials storage areas	Supersacks and palleted bags of carbon, lime and metallic alloys.	Remove large items of debris. Collect and transfer spilled dry material into an appropriate container. As possible, use the spilled material in process, or manage and dispose of the spilled material in an appropriate manner.	005

Employee Training

Employees in the following departments will receive training in general housekeeping, material management practices, and spill response annually to inform them of storm water pollution measures:

- Shipping and receiving
- Raw materials and scrap management
- Waste water treatment
- Process water treatment
- Maintenance

Sedimentation and Erosion Control

No areas subject to significant erosion have been identified at the Facility. Roadways and unpaved areas of the Facility in active operations areas are monitored and graded as necessary to promote proper storm water runoff. If future erosion problems arise, they will be identified in the inspection report, evaluated, and corrected in a timely fashion.

Management of Runoff

The boundaries of the Facility are graded to prevent storm water from leaving active operational areas of the Facility through uncontrolled outfalls. Storm water falling on the Facility is absorbed into the soil in unpaved areas, or collected in the catch basin system with non-contact cooling process waste water and discharged to the on-site lagoons. Within the lagoons, suspended solids are removed from the waste water via gravity settling and any oil sheen present is removed by the use of surface oil skimming equipment. The combined waste water in the lagoons is further treated in the on-site waste water treatment plant to remove suspended solids and dissolved metals and then either returned to the process for reuse or discharged from Outfall 005 under the provisions of the Facility's NPDES permit.

5.2 STRUCTURAL CONTROLS

The equipment outlined herein are specifically intended to reduce the likelihood of polluting materials and storm water interaction, and the subsequent potential for polluting materials entering surface waters of the state. Structural controls require physical changes and may be implemented at the potential source of polluting materials impact, or at areas remote from the potential source. The structural controls used at the Facility include:

Double Walled Tanks

Double wall-equipped storage tanks are used for gasoline and diesel fuel storage. Each of the double walled tanks is equipped with a visual system to allow monitoring of the interstitial space between the tank walls. Should a leak in the interior tank be detected, the tank can be repaired or replaced before the outer shell could be compromised and result in a release of polluting materials.

Secondary Containment

A concrete secondary containment system is in place around the two outdoor chemical storage tanks (ferric chloride and sulfuric acid) located at the on-site waste water treatment system. If either of these tanks should develop a leak, the spilled chemical will be contained within the secondary containment area until it is detected during normal inspection, resulting in a clean up activity and final management of the spilled material. Rainwater collected in this secondary containment system is treated in the on-site waste water treatment plant.

A concrete secondary containment system is place around the indoor chemical storage tanks located at the process water treatment system. Spills will be maintained within the secondary containment area until it is detected during normal inspection, resulting in a clean up activity and final management of the spilled material. No rainwater management is necessary with this system.

Containers of liquid polluting materials (e.g., water treatment chemicals, maintenance oils, etc.) are stored inside within process or warehouse areas at the Facility. In these instances, the storage area roof removes the potential for storm water impacts, and the floor and walls of the buildings generally act as a secondary containment system to minimize the potential for any spilled polluting materials to escape the building and be exposed to storm water.

Surface Grading

Roadways and unpaved areas surrounding operating areas are maintained and graded as necessary to minimize storm water erosion and sedimentation. In addition, the Facility boundaries are maintained and graded to minimize the potential for discharge of storm water from active operational areas of the Facility through un-controlled outfalls.

6 Non-Storm Water Discharges

Outfalls from the Facility that contain storm water runoff are limited to Outfalls 005. The water from Outfall 005 contains both process water and storm water, which has been treated in the onsite waste water treatment system to meet the limits in the Facility's NPDES permit before it is discharged to the Mahoning River. The discharge from Outfall 005 therefore is a result of both storm water and non-storm water sources at the Facility.

The existing Facility NPDES permit also notes the potential for storm water discharge at Outfalls 006 and 007. WSH contends, however, that these two outfalls are not located on the Facility or on property controlled by WSH, and do not discharge storm water runoff generated on the WSH property. The discharge from Outfall 006 appears to be storm water colleted from north of the WSH property and discharged to the Mahoning River via an underground, concrete county storm drain line. Outfall 007 appears to drain storm water from a low-lying area to the west of the WSH property via a surface ditch discharge to the Mahoning River. As these discharges are not generated from activities at the WSH property, and therefore WSH can not certify that they contain only storm water. WSH has discussed this issue with Ohio EPA Surface Water Division at the NE District Office and have requested the removal of these outfalls from the Facility NPDES permit during the next renewal period.

7 RECORDKEEPING AND INTERNAL REPORTING PROCEDURES

The Facility NPDES permit requires that records of all preventive maintenance inspections, the annual comprehensive site inspections report, and history of spills and leaks be retained at the Facility. These records must be made available, upon request, to a representative of the Ohio EPA.

Appendix B includes the Facility's spill and leak history. Appendix C includes sample forms that may be used to maintain records for housekeeping inspections and activities, preventative maintenance, and comprehensive inspections. The sample forms are an example of the type of information to be recorded and maintained, but more specific or alternative forms can be developed and maintained by WSH personnel, as appropriate.

8 COMPREHENSIVE SITE INSPECTION

A comprehensive site inspection will be conducted annually at a minimum by the SWPP plan administrator, or an employee designated by him. It will consist of a visual inspection of:

- The evidence of, or the potential for, polluting materials to enter the storm water drainage system, including the liquid and solids materials in container storage areas, gasoline and diesel fuel tanks, the process water treatment building, and the waste water treatment plant and lagoons;
- Structural management measures (i.e., double-walled tanks, secondary containment, site grading and lagoon integrity) and sediment control to ensure they are operating correctly;
- The equipment needed to implement the SWPPP, such as spill response equipment, to make sure it is available should it be needed; and
- The boundaries of the Facility to identify areas of erosion or sedimentation that could indicate the release of storm water from the Facility thorough uncontrolled outfalls.

If updates or changes to the description of the potential sources of pollution or the control measures at the Facility as written in the SWPPP are necessary, based on the results of the inspection, the revision shall be completed within two weeks of the date of the inspection. As required, the Facility shall provide for implementation of the changes to the plan in a timely manner, but no more than 12 weeks from the date of the inspection.

A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken as a result of the of the inspection shall be made. The report shall be signed by a responsible corporate official and retained with the SWPPP for at least three years.

APPENDICES

APPENDIX A

NPDES PERMIT

APPENDIX B

SITE SPILL HISTORY

LIST OF SPILLS AND LEAKS AT THE FACILITY

DATE	MATERIAL	VOLUME	LOCATION	ACTIONS TAKEN
<u></u>				
		 		

APPENDIX C

SAMPLE RECORDKEEPING FORMS

GOOD HOUSEKEEPING INSPECTION

Date:	Time:
nspected by (printed):	
Signature:	

AREAS INSPECTED	OBSERVATIONS	ACTIONS TAKEN
Parking Areas		
Production Areas		
Grounds (around active operating areas, in general)		
Diesel Fuel and Gasoline Storage Tanks		
Liquid Container Storage areas		
Indoor Dry Materials Storage		
Scrap Yard		
Slag Yard		
Process Water Treatment Area		
Waste Water Treatment Area		

PREVENTIVE MAINTENANCE

Date:	Time:	
Inspected by (printed):		
Signature:		

	OBSERVATIONS	ACTIONS TAKEN
		· .
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COMPREHENSIVE INSPECTION CHECKLIST

Date:	Time:	
nspected by (printed):		· · · · · · · · · · · · · · · · · · ·
Signature:		
AREAS INSPECTED	OBSERVATIONS	ACTIONS TAKEN
Outfall 005		
Property Boundaries		
Production Areas		
Grounds (in general)		
Parking Lots		
Gasoline and Diesel Fuel Tanks		
Liquid Container Storage Areas		
Indoor Dry Materials Storage		
Scrap Yard		·
Slag Yard		
Process Water Treatment Area		
Waste Water Treatment Area		

Include checklist within annual comprehensive inspection report and maintain on file for a minimum of three (3) years.

EMPLOYEE TRAINING

Date of Session:		Time:	<u></u>
Trainer:			
Trainer:(printed)		(Signature)	
Attendees (names, printed):		Signature:	
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Topics Covered:			
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RECORDS CLASSIFICATION FORM FOR REGION V RCRA RECORDS

Today's Date: 5/4/16
Site Name: Warren Steel Holdings
D Number: 0HR 000 007 773
Date(s) of Documents:
Type(s) of Document: <u>LURA Enforce ment</u>
Quantity of Documents: No. of Box(es) No. of Folder(s):
Sensitive: CBI Room N A Enforcement Sensitive (Red Folder) N/A
Documents can go to Federal Record Center: Yes No (Documents from FRC can be recalled in 48-72 hours)
Submitted by: Somie Powin
Telephone Number:
Comments: Still 100 King for green
card in his letter Feel free to
call if you come across it.
Homks!
Jamie

LAND AND CHEMICALS DIVISION

Type of Document:NC	OV	
No.		Ďs.
Name of Document: _W	arren Steel Holdings	
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

JAN 2 1 2016

REPLY TO THE ATTENTION OF:

CERTIFIED MAIL 7009 1680 0000 7648 6910 RETURN RECEIPT REQUESTED

Corporate Creations Network Inc.
Registered Agent for Warren Steel Holdings, LLC
119 East Court Street
Cincinnati, Ohio 33410

Re: Notice of Violation Compliance Evaluation Inspection and Sampling Event OHR 000 007 773

Dear Corporate Creations Network Inc.:

On September 17 and September 18, 2013 representatives of the U.S. Environmental Protection Agency and representatives of the National Enforcement Investigations Center (NEIC) inspected the Warren Steel Holdings, LLC facility located in Warren, Ohio (Warren). As a "large quantity generator" of hazardous waste, Warren is subject to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq. (RCRA). The purpose of the inspection was to evaluate Warren's compliance with certain provisions of RCRA and its implementing regulations related to the generation, treatment and storage of hazardous waste. A copy of the inspection report is enclosed for your reference.

Based on information provided by Warren, EPA's review of records pertaining to Warren, and the inspector's observations, EPA has determined that Warren has unlawfully stored hazardous waste without a permit or interim status as a result of Warren's failure to comply with certain conditions with which a generator must comply in order to qualify for a permit exemption under Ohio Admin. Code 3745-52-34(A)-(C) [40 C.F.R. § 262.34(a)-(c)]. EPA has identified the generator permit exemption conditions with which Warren was out of compliance at the time of the inspection in paragraphs 1-6, below.

Many of the conditions for a RCRA permit exemption incorporate independent requirements that apply to interim status hazardous waste management facilities that treat, store, or dispose of hazardous waste under Ohio Admin. Ch. 3745-65 [40 C.F.R. Part 265] (TSD requirements). When a hazardous waste generator loses its permit exemption due to a failure to comply with an exemption condition that incorporates a TSD requirement from Ohio Admin. Code Ch. 3745-65, the generator: (a) becomes an operator of a hazardous waste storage facility; and

(b) simultaneously violates the corresponding TSD requirement that applies to interim status facilities (or an analogous requirement that applies to permitted treatment, storage or disposal facilities in Ohio Admin. Code Ch. 3745-54 [40 C.F.R. Part 264]). The generator exemption conditions identified in paragraphs 4 – 6 all incorporate independent TSD requirements from Ohio Admin. Code Ch. 3745-65.

Accordingly, each failure of Warren to comply with these generator exemption conditions is also a violation of the corresponding requirement in either Ohio Admin. Code Ch. 3745-65 [40 C.F.R. Part 265] (if the facility was in existence as of November 19, 1980, and thus should have had interim status), or Ohio Admin. Code Ch. 3745-54 [40 C.F.R. Part 264] (if the facility came into existence after November 19, 1980, and thus should have had a storage permit).

Finally, EPA has determined that Warren violated RCRA requirements related to hazardous waste reports and to universal waste, as described in paragraphs 7 and 8, below.

NON-COMPLIANCE and VIOLATIONS

At the time of the inspection, Warren was out of compliance with the following "large quantity generator" permit exemption conditions:

1. Date When Each Period of Accumulation Begins

Under Ohio Admin. 3745-52-34(A)(2) [40 C.F.R. § 262.34(a)(2)], a large quantity generator must clearly mark each container holding hazardous waste with the date upon which each period of accumulation begins.

At the time of the inspection, Warren maintained two roll-off boxes, storing K061 hazardous waste (emission control dust from the primary production of steel in electric arc furnaces), that were not marked with the date upon which each period of accumulation of hazardous waste began.

One of the roll-off boxes was full and ready for pick-up and the other roll-off box was partially full and contained overflow from a previous collection box that had already been shipped for disposal.

2. Hazardous Waste Container Labeling

Under Ohio Admin. 3745-52-34(A)(3) [40 C.F.R. § 262.34(a)(3)], a large quantity generator must label or clearly mark each container holding hazardous waste with the words, "Hazardous Waste."

At the time of the inspection, Warren was storing K061 hazardous waste in two roll-off boxes, mentioned in item 1 above, that were not marked with the words, "hazardous waste." One of the roll-off boxes was full and ready for pick-up and the other roll-off box was partially full and contained overflow from a previous collection box that had already been shipped for disposal.

3. <u>Accumulation of Hazardous Waste Only in Containers, in Tanks, on Drip Pads or in Containment Buildings</u>

Under Ohio Admin. Code 3745-52-34(A)(1) [40 C.F.R. § 262.34(a)(1)], a large quantity generator may accumulate hazardous waste on-site, provided that the waste is placed only in containers, in tanks, on drip pads or in containment buildings.

At the time of the inspection, Warren was accumulating K061 hazardous waste on the ground near the K061 collection area:

Dr. Brad Venner, an NEIC statistician, conducted a statistical analysis of the laboratory data. Dr. Venner concluded that elemental concentration patterns in soil are consistent with contamination by electric arc furnace (EAF) dust. A three-profile non-negative matrix factorization model is consistent with the presence of EAF dust in soil samples ranging from 0.5 to 28 percent. See, NEIC Compliance Investigation report, pages 14, 15 and 16, Tables 4, 5, and 6; and appendix E. See, Dr. Brad Venner's memo regarding statistical analysis.

The generator permit exemption conditions identified below in paragraphs 4 through 6 are also independent TSD requirements violated by Warren, as noted.

4. Failure to Minimize Possibility of Unplanned Releases of Hazardous Waste

Under Ohio Admin. Code 3745-52-34(A)(4) and Ohio Admin. Code 3745-65-31 [40 C.F.R. § 262.34(a)(4); 40 C.F.R. § 265.31], a large quantity generator must maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. The analogous independent requirement for facilities that came into existence after November 19, 1980 is Ohio Admin. Code 3745-54-31 (40 C.F.R. § 264.31).

At the time of the inspection, Warren failed to minimize the possibility of such an unplanned release of hazardous waste by accumulating K061 hazardous waste on the ground near the K061 loading and collection area; and the K061 loading and collection area, collection boxes, and transfer equipment were dusty, unconfined, open to the elements and not maintained.

5. Weekly Inspections

Under Ohio Admin. Code 3745-52-34(A)(1) and 3745-66-74 [40 C.F.R. § 262.34(a)(1)(i); 40 C.F.R. § 265.174], a large quantity generator that stores hazardous waste in containers must comply with the applicable requirements of subpart I, Use and Management of Containers for hazardous waste placed in containers. Specifically, at least weekly, the owner or operator must inspect areas where containers are stored. The analogous independent requirement for facilities that came into existence after November 19, 1980 is Ohio Admin. Code 3745-55-74 (40 C.F.R. § 264.174).

At the time of the inspection, Warren was not conducting weekly inspections of the K061 collection and storage areas.

6. Training

Under Ohio Admin. Code 3745-52-34(A)(4) and 3745-65-16(A); [40 C.F.R. § 262.34(a)(4); 40 C.F.R. § 265.16(a)], facility personnel of a large quantity generator of hazardous waste must successfully complete a program of classroom instruction or onthe-job training that teaches facility personnel to perform their duties in a way that ensures the facility's compliance with requirements of RCRA. This program must be directed by a person trained in hazardous waste management procedures, and must include instruction that teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed. The analogous independent requirement for facilities that came into existence after November 19, 1980 is Ohio Admin. Code 3745-54-16(A) [40 C.F.R. § 264.16(a)]. Facility personnel must successfully complete this training program within six months after the date of their employment or assignment to a facility or to a new position at a facility, and must take part in an annual review of this initial training thereafter. See, Ohio Admin. Code 3745-52-34(A)(4) and 3745-65-16(B) and (C) [40] C.F.R. §§ 262.34(a)(4); 40 C.F.R. § 265.16(b) and (c)]; the analogous independent requirement for facilities that came into existence after November 19, 1980 is Ohio Admin. Code 3745-54-16(B) and (C) [40 C.F.R. § 264.16(b) and (c)].

With respect to the training program, a large quantity generator must maintain the following documents and records at its facility:

- a. The job title for each position at the facility related to hazardous waste management and the name of the employee filling each job;
- b. A written job description for each position at the facility related to hazardous waste management;
- c. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position at the facility related to hazardous waste management; and
- d. Records that document that the training or job experience described above has been given to and completed by facility personnel.

See, Ohio Admin. Code 3745-52-34(A)(4); 3745-65-16(D) [40 C.F.R. §§ 262.34(a)(4) and 265.16(d)]; the analogous independent requirement for facilities that came into existence after November 19, 1980 is Ohio Admin. Code 3745-65-16(D) [40 C.F.R. § 264.16(d)].

At the time of the inspection, Warren facility personnel had not successfully completed a program of classroom instruction or on-the-job training that teaches facility personnel to perform their duties in a way that ensures the facility's compliance with requirements of RCRA.

Warren did not have and was unable to provide in response to a request a list of each position at the facility related to hazardous waste management and the name of the employee filling such position(s).

At the time of the inspection, Warren did not have and was unable to provide in response to a request a written description for each position related to hazardous waste management at the facility.

At the time of the inspection, Warren did not have and was unable to provide in response to a request a written description of the type and amount of introductory and continuing training given to employees with duties related to hazardous waste management.

At the time of the inspection, Warren had not conducted annual review of the initial training required and had not conducted training within six months after the date of employment for new employees.

Summary: By failing to comply with the conditions for a permit exemption, above, Warren became an operator of a hazardous waste storage facility, and was required to obtain an Ohio hazardous waste storage permit. Warren failed to apply for or obtain such a permit. Warren's failure to apply for and obtain a hazardous waste storage permit violated the requirements of RCRA and Ohio Admin. Code 3745-50-45 and 3745-50-41 [40 C.F.R. §§ 270.1(c), and 270.10(a) and (d)]. Any failure to comply with a permit exemption condition that incorporates an independent TSD requirement from Ohio Admin. Code Ch. 3745-65 is also an independent violation of the corresponding or analogous TSD requirement.

OTHER VIOLATIONS

Warren also violated the following generator requirements:

7. Hazardous Waste Reports

Under Ohio Admin. Code 3745-52-40(B); [40 C.F.R. § 262.40(b)], a large quantity generator must keep a copy of each Biennial Report and Exception Report for a period of at least three years from the due date of the report.

At the time of the inspection, Warren had no record of the hazardous waste reports submitted to the Ohio Environmental Protection Agency (OEPA) for the last three years.

8. Universal Waste Requirement

Under Ohio Admin. Code 3745-273-13(D)(1) [40 C.F.R. § 273.13(d)(1)], a small quantity handler of universal waste must place any universal waste mercury-containing lamps in a closed container.

At the time of the inspection, Warren was not storing waste fluorescent light bulbs in a closed container. At least two containers labeled "Universal Waste," were open during the inspection.

SUMMARY

At this time, EPA is not requiring Warren to apply for an Ohio hazardous waste storage permit so long as it immediately establishes compliance with the conditions for a permit exemption outlined in paragraphs 1-6, above.

According to Section 3008(a) of RCRA, EPA may issue an order assessing a civil penalty for any past or current violation, requiring compliance immediately or within a specified time period, or both. Although this letter is not such an order under Section 3008 of RCRA and is not a request for information under Section 3007 of RCRA, 42 U.S.C. § 6927, we request that you submit a response in writing to us no later than thirty (30) days after receipt of this letter documenting the actions, if any, which you have taken since the inspection to establish compliance with the above conditions and requirements. You should submit your response to Jamie L. Paulin, U.S. EPA, Region 5, 77 West Jackson Boulevard, LR-8J, Chicago, Illinois 60604.

If you have any questions regarding this letter, please contact Ms. Paulin, of my staff, at 312-886-1771 or at paulin.jamie@epa.gov.

Sincerely,

Gary J. Victorine, Chief

RCRA Branch

Enclosure

cc: Teri.Finfrock@epa.ohio.gov





United States Environmental Protection Agency Office of Enforcement and Compliance Assurance Office of Criminal Enforcement, Forensics and Training

NEICVP1053E01

RESOURCE CONSERVATION AND RECOVERY ACT COMPLIANCE INVESTIGATION

Warren Steel Holdings, LLC Warren, Ohio NEIC Project No.: VP1053

July 2014

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Authorized for Release by:

Suzanne Schulman, Civil Services Section Chief

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER

P.O. Box 25227

Building 25, Denver Federal Center Denver, Colorado 80225

NEIC

onal Enforcement Investigations Cente

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В	*XRF Narrative and Data Summary (1 page and supporting Excel® file)	
C	*Chain of Custody Record (2 pages)	
D	*NEIC Receipt for Samples (2 pages)	
Е	*Sample Locations and Lead Concentrations Map (1 page)	
F	*Sample Locations and Zinc Concentrations Map (1 page)	

This Contents page shows all of the sections contained in this report and provides a clear indication of the end of this report.

INTRODUCTION

At the request of U.S. Environmental Protection Agency (EPA) Region 5, EPA's National Enforcement Investigations Center (NEIC) conducted a Resource Conservation and Recovery Act (RCRA) compliance investigation of the Warren Steel Holdings, LLC facility located at 4000 Mahoning Avenue, Warren, Ohio 44483 (Warren Steel). Warren Steel is a melt shop and casting facility, producing carbon and alloy steel continuously cast rounds.

The investigation objective was to identify possible mismanagement and release of K061 dust from the loading and storage area. K061 dust is a waste particulate material generated during the steelmaking process and is also known as electric arc furnace (EAF) dust. K061 is listed as a RCRA hazardous waste. This work involved sampling the K061 dust from inside the loading area (e.g., K061 collection box for disposal) and from soils potentially contaminated with K061 dust in the vicinity of the K061 loading and storage area of the facility.

All tests are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board/FQS. The NEIC scope of accreditation includes three major categories: field sampling, field measurements/monitoring, and laboratory measurements. The accreditation certificate number is AT-1646.

FACILITY BACKGROUND

Warren Steel was founded in 2001 and is headquartered in Warren, Ohio. According to the company website, Warren Steel occupies 390-plus acres of land and produces approximately 800,000 metric tons of product annually. It is a producer and supplier of high-quality carbon and alloy steel continuously cast products. Warren's engineered products are currently used in a variety of different industries, including aerospace, mining, construction, automotive, and agriculture. Warren Steel is a large quantity generator of hazardous waste. Warren Steel has a generator identification number: U.S. EPA ID No. OHR000007773. **Figure 1** is a Pictometry International Corporation aerial image of the Warren Steel facility.



Figure 1. Site aerial image Warren Steel Holdings, LLC Warren, Ohio

ON-SITE INSPECTION SUMMARY

Introduction

NEIC conducted the on-site inspection of Warren Steel on September 17 and September 18, 2013. The field team included Jamie Iatropulos (J. Iatropulos, project manager) and Don Smith (D. Smith) from NEIC, as well as Jamie Paulin (J. Paulin) and Kathy Triantafillou (K. Triantafillou) of EPA Region 5.

Credentials were presented to Joe Ford (J. Ford) and Joel Pyle (J. Pyle), environmental health and safety managers, during the opening meeting on September 17, 2013. Terry Krees (T. Krees), baghouse operator and wastewater operator, and Tim Marleno (T. Marleno), baghouse operator and maintenance worker, also were present for the inspection. An exit meeting was held on September 18, 2013, between the field team and J. Ford and J. Pyle, to discuss preliminary inspection observations. Photographs taken by the field team are located in **Appendix A**.

Inspection Activities

Warren Steel representatives provided a walk-through tour of the facility and process areas, process descriptions, and documentation/records pertaining to the investigation. The field team assessed Warren Steel's compliance with RCRA requirements particularly related to K061 dust loading, handling, and disposal. The assessment incorporated the interviews of facility personnel, including environmental health and safety managers and baghouse operators; detailed discussions and field observations of the K061 handling area; and a records review.

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The field team conducted sampling of Warren Steel's active K061 collection box, as well as the area surrounding the K061 handling area of the facility, to determine Warren Steel's compliance with RCRA requirements.

FIELD SAMPLING SUMMARY

Sampling Activities

All samples were collected from the K061 loading and storage area of the facility (Figure 2).



Figure 2. K061 loading and storage area (sampling location)
Warren Steel Holdings, LLC
Warren, Ohio

J. Iatropulos used a telescoping pole and dipper cup to collect samples from stations S01, S02, and S03 at the active K061 collection box. Upon initial collection, each sample was placed into a resealable plastic bag. Each sample was then emptied into an aluminum pan, mixed, and split into two plastic resealable plastic bags using a plastic disposable scoop. Alternating scoops were placed into the two bags to make up two resealable plastic bags per sample collection. One bag was retained by NEIC; the other bag was given to Warren Steel as a split sample.

The sampling area for sample stations S04 – S17 was first determined by establishing a starting point location. The starting point was chosen to be the sign at the end of the active K061 collection box. From the starting point location, the field team measured 30 feet to the east (direct left) and 30 feet to the west (direct right); doing this established a 180-degree range. The field team then determined a 60-degree angle from the starting point, as well as a 140-degree angle, and marked these points at a 30-foot distance from the starting point. By creating these points, the field team established sampling areas A, B, and C. The field team repeated this method at a 100-foot distance from the starting point to establish sampling areas D, E, and F. A generalized sampling area was established beyond a 100-foot distance from the starting point for sampling area G, which equated to the area between the 61-degree and 140-degree points. Within each sampling area, 30 marker flags were dispersed randomly to establish sampling points in which the portable X-ray fluorescence (XRF) Innov-X XRF Model DSW4000 was used

to collect *in situ* readings of select elemental constituents. The Innov-X XRF was set up in the back end of a vehicle that was parked close to the areas of investigation. The XRF measurements were made *in situ* at random spots within the established sampling area. A plastic cover was used to protect the detector and tube window from external contamination. Standard and blank measurements were made at regular intervals. A summary of the XRF results and quality assurance measurements is included in **Appendix B**. Based upon those readings, sampling points within each sampling area were selected for sample collection. **Figure 3** shows the sampling design for stations S04 – S17.

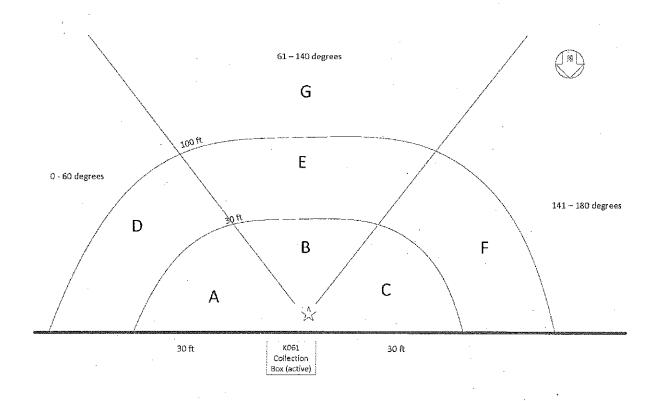


Figure 3. Sampling design for stations S04 – S17¹
Warren Steel Holdings, LLC
Warren, Ohio

At each of sample stations S04 - S17, the field team used a new craft stick to collect material from the surface in a circular area surrounding the sample station. The sample material was placed into an aluminum pan and mixed with the craft stick to homogenize the sample before splitting the material into two resealable plastic bags (one for NEIC; one for Warren Steel).

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Not to scale. Star represents sign at end of K061 collection box (starting point). Measurements were completed using a metal tape measure and compass. String was used to establish a visual outline of the sampling areas.

The sample from S18 was collected from a waste pile located in sampling area G. The sample from station S18 is considered a sample of opportunity. NEIC collected the sample to determine if the waste pile was RCRA characteristic for toxicity. The sample from station S18 was collected with a new, disposable plastic scoop. The sample material was placed into an aluminum pan and mixed with the plastic scoop to homogenize the material before it was split into two resealable plastic bags. The aluminum pan was either washed out or replaced between the collection of material at each sample station.

Sampling Report

Table 1 summarizes NEIC field sampling. J. Iatropulos collected all of the samples. The samples and chain of custody records (COC) for all the samples were delivered to the NEIC principal analytical chemist (PAC) for this project, Jennifer Suggs (J. Suggs), at the NEIC laboratory in Denver, Colorado; the COC is included in **Appendix C**. NEIC collected split samples for Warren Steel at each sample location, and the receipts of these samples are included in **Appendix D**.

Table 1. FIELD SAMPLE SUMMARY Warren Steel Holdings, LLC Warren, Ohio

waiten, Onio						
NEIC Sample Station No. ^{1, 2}	NEIC-Designated Sample Station Location	NEIC Sample Collection Date	Sample Collection Method Sampling Device	NEIC Field Description of Sample		
NEIC Tag No. ³	Sample Coordinate Location (Latitude N, Longitude W) ⁴	Time (hours)	Used for Collection	NEIC Sampling Photographs/		
		Sampler	Sampling Device Used to Split Sample	Photographer (Appendix A)		
			Grab	Fine, brown, dust-		
S01	K061 Collection Box	09/17/2013 1305	Dipper cup and telescoping pole	like material		
NE34718 NE34719*	41.26958 -80.848399	J. latropulos	Plastic scoop and aluminium pan	IMGP0458 IMGP0459 J. Paulin		
S02	K061 Collection Box	09/17/2013	Grab Dipper cup and	Fine, brown, dust- like material		
NE34720* NE34721	41.26958 -80.848399	1307 J. latropulos	telescoping pole Plastic scoop and aluminum pan	IMGP0458 IMGP0459 J. Paulin		
S03	K061 Collection Box	09/17/2013	Grab Dipper cup and	Fine, brown, dust- like material		
NE34722* NE34723	41.26958 -80.848399	1308 J. latropulos	telescoping pole Plastic scoop and aluminium pan	IMGP0458 IMGP0459 J. Paulin		

Table 1. FIELD SAMPLE SUMMARY Warren Steel Holdings, LLC Warren, Ohio

warren, Onio										
NEIC Sample Station No. ^{1, 2}	NEIC-Designated Sample Station Location	NEIC Sample Collection Date	Sample Collection Method Sampling Device	NEIC Field Description of Sample						
	Sample Coordinate	Time (hours)	Used for Collection	NEIC Sampling						
NEIC Tag No. ³	Location (Latitude N, Longitude W) ⁴	Sampler	Sampling Device Used to Split Sample	Photographs/ Photographer (Appendix A)						
S04 NE34724* NE34725	A1 41.269561 -80.848339	09/18/2013 1136 J. latropulos	Grab Craft stick and aluminum pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0471 K. Triantafillou						
S05 NE34726* NE34727	A5 41.269499 -80.848394	09/18/2013 1145 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Dark-brown dirt-like material with organics IMGP0472 K. Triantafillou						
S06 NE34728* NE34729	A30 41.269531 -80.848349	09/18/2013 1157 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0473 K. Triantafillou						
S07 NE34730* NE34731	B1 41.269550 -80.848427	09/18/2013 1213 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0474 K. Triantafillou						
S08 NE34732* NE34733	B6 41.269527 -80.848465	09/18/2013 1224 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0475 K. Triantafillou						
S09 NE34734* NE34735	B12 41.269509 -80.848427	09/18/2013 1235 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0476 K. Triantafillou						

Table 1. FIELD SAMPLE SUMMARY Warren Steel Holdings, LLC Warren, Ohio

Warren, Ohio									
NEIC Sample Station No. 1, 2	NEIC-Designated Sample Station Location	NEIC Sample Collection Date	Sample Collection Method Sampling Device	NEIC Field Description of Sample					
	Sample Coordinate	Time (hours)	Used for Collection	NEIC Sampling Photographs/					
NEIC Tag No. ³	Location (Latitude N, Longitude W) ⁴	Sampler	Sampling Device Used to Split Sample	Photographer (Appendix A)					
S10 NE34736 NE34737*	C30 41.269569 -80.848498	09/18/2013 1256 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0477 K. Triantafillou					
S11 NE34738 NE34739*	C18 41.269557 -80.848546	09/18/2013 1306 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0478 K. Triantafillou					
\$12 NE34740* NE34741	C28 41.269541 -80.848505	09/18/2013 1318 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0479 K. Triantafillou					
S13 NE34742* NE34743	E3 41.269412 -80.848465	09/18/2013 1552 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Damp, dark-brown dirt/mud-like material IMGP0482 K. Triantafillou					
S14 NE34744* NE34745	E1 41.269376 -80.848373	09/18/2013 1608 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Damp, dark-brown dirt/mud-like material IMGP0483 K. Triantafillou					
S15 NE34746* NE34747	E28 41.269360 -80.848589	09/18/2013 1622 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0484 K. Triantafillou					

Table 1. FIELD SAMPLE SUMMARY Warren Steel Holdings, LLC Warren, Ohio

NEIC Sample Station No. ^{1, 2} NEIC Tag No. ³	NEIC-Designated Sample Station Location Sample Coordinate Location (Latitude N, Longitude W) ⁴	NEIC Sample Collection Date Time (hours) Sampler	Sample Collection Method Sampling Device Used for Collection Sampling Device Used to Split Sample	NEIC Field Description of Sample NEIC Sampling Photographs/ Photographer (Appendix A)
S16 NE34748 NE34749*	E11 41.269413 -80.848415	09/18/2013 1643 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Fine, brown, dust- like material IMGP0485 K. Triantafillou
S17 NE34750* NE34751	G4 41.269322 -80.848285	09/18/2013 1652 J. latropulos	Grab Craft stick and aluminium pan Craft stick and aluminium pan	Rocky, brown, dirt- like material IMGP0486 K. Triantafillou
S18 NE34752 NE34753*	G18 41.269212 -80.848506	09/18/2013 1722 J. latropulos	Grab Craft stick and aluminium pan Plastic scoop and aluminium pan	Rocky, black, dirt- like material IMGP0487 K. Triantafillou

Samples from stations S01 – S18 were each placed into a resealable plastic bag.

The locations of the NEIC samples are shown in **Appendices E** and **F**, which also show the range of values for the NEIC laboratory analyses of lead and zinc, respectively.²

Page 11 of 22 Warren Steel Holdings, LLC Warren, Ohio

² D. Smith used the Ludlum Model 3 Survey Meter (serial No. 142962) to monitor the radiation level of each sample collected prior to shipment to NEIC. No levels were detected above background.

^{3 *} indicates spilt sample given to facility.

Global positioning system (GPS) coordinates were collected by K. Triantafillou with the Trimble GeoXH unit (serial No. 4721455370) for samples from stations S04 – S13. GPS coordinates were collected by K. Triantafillou with the GPS 12 XL 12 Channel hand-held unit (serial No. 35316615) for samples from stations S14 – S18. The GPS coordinates were reviewed, and minor adjustments made using high-resolution imagery (3/20/2012 from Pictometry International) by J. latropulos and Carrie Middleton of NEIC. For stations S01 – S03, the locations were interpolated using the georeferencing information from the high-resolution imagery. The coordinates are in decimal degrees and World Geodetic Survey 1984 (WGS84) datum.

² The lead and zinc maps are not to scale. Sample locations on both maps are approximated to the actual sample location where the samples were collected during the NEIC site visit.

LABORATORY ACTIVITIES

SAMPLE DELIVERY AND RECEIPT

Eighteen solid samples, collected by J. Iatropulos, were delivered via FedEx to the NEIC laboratory for analysis. Three samples were labeled as K061 dust. One sample was collected from a waste pile, and the remaining samples were soil samples. The samples were collected from Warren, Ohio, in Trumbull County. The soil samples are U.S. Department of Agriculture (USDA) restricted soils due to the presence of Japanese beetles. All samples were shipped together, so all samples were managed as restricted soils. Photographs were taken after opening the shipping container to show the careful packaging of the restricted soil samples. photographs and a photograph log were saved on a compact disc, which is in the project files. All samples were handled in accordance with the NEIC operating procedures Evidence NEICPROC/00-059R3, USDARequirements for SoilManagement, and NEICPROC/02-001R3. Table 2 summarizes the delivery and receipt associated with these samples.

Table 2. LABORATORY SAMPLE DELIVERY AND RECEIPT Warren Steel Holdings, LLC Warren, Ohio

Event	Date	Comments
Shipment	September 23, 2013	One large, locked shipping case was shipped, via FedEx, by J. latropulos (tracking No. 528977117835).
Receipt at NEIC	September 24, 2013	Locked shipping case arrived at NEIC and was received by J. Suggs at 1:30 pm. Eighteen solid samples were unpacked and inspected by J. Suggs; no damage or custody issues were observed. Photographs were taken to show the careful packaging of the restricted soils. J. Suggs verified and signed the chain of custody records (N13724 and N13725), and the samples were stored in a small locking, waterproof case within the J. Suggs' laboratory cart and that was secured with a resettable combination lock.

ANALYTICAL PROCEDURES AND ANALYSTS

The NEIC laboratory was requested to perform elemental analysis on all of the samples and toxicity characteristic and leaching procedure (TCLP, EPA SW-846 Method 1311) extraction and analysis on the sample from the waste pile (sample from station S18). Samples were unpacked, visually inspected for any signs of insect contamination, and initial weights were recorded. Portions of samples were dry-heat treated at 110 degrees Celsius (°C) for 16 hours in accordance with NEICPROC/02-001R3 to decontaminate the samples prior to aqua-regia digestion. For the waste pile sample, a portion was dry-heat treated prior to aqua-regia digestion and a portion was not treated so that it could be used for TCLP extractions. All remaining sample materials were secured in J. Suggs' laboratory cart and clearly marked as USDA restricted soils. All analyses were conducted in accordance with the NEIC quality system and

were performed by NEIC personnel. Analytical procedures and analysts are summarized in **Table 3**.

Table 3. ANALYTICAL PROCEDURES AND ANALYSTS
Warren Steel Holdings, LLC
Warren, Ohio

Procedure	Analyst
Physical Description/Phase Separation, NEICPROC/00-045R3	Jennifer Suggs
USDA Requirements for Soil Samples, NEICPROC/02-001R3	Jennifer Suggs Cyndy Lemmon
Toxicity Characteristic Leaching Procedure, EPA SW-846 Method 1311	Cyndy Lemmon
Aqua-Regia Digestion (for Solids), Appendix A of Elemental Analyses, NEICPROC/00-062R5	Theresa Morris Bradley Miller Richard Helmich
Optima 5300 Operating Procedure, Appendix C of Elemental Analyses, NEICPROC/00-062R5	Cyndy Lemmon Bradley Miller Theresa Morris

ANALYTICAL RESULTS

Analytical results from the TCLP extraction of the sample from the waste pile did not indicate the presence of metals at concentrations of interest for the RCRA characteristic of toxicity. TCLP results are maintained in the project files.

Analytical results from the aqua-regia digestion and analysis by inductively coupled plasma-optical emission spectrometry (ICP-OES) are presented in **Tables 4 through 6** in milligrams per kilogram (mg/kg). Results were calculated from the dry weight of the sample and are average values from duplicate and triplicate analyses, with the exception of two samples. The samples from stations S01 and S10 were prepared as analytical triplicates during the aquaregia digestion. For the sample from station S01, all subsample replicates were analyzed in triplicate (n = 9), and for the sample from station S10, two of the subsample replicates were analyzed in triplicate (n = 6). Values reported for those two samples are the average of all the analyses. Samples analyzed in duplicate were from stations S11, S15, S16, and S17. Mercury was not present above the detection limit for all stations, and bismuth and yttrium were not present above the detection limit for the sample from station S17.

Table 4. LABORATORY ANALYTICAL RESULTS FOR SAMPLES FROM STATIONS S01 - S06 Warren Steel Holdings, LLC Warren, Ohio

		. ,		Sample Stat		arren, Ohio C Tag No., a	nd Analytica	l Results		:		
	- S()1	S)2	S	03	S	04	\$05		S	06
Element	NE34718		NE34721		NE34723		NE34725		NE34727		NE4729	
	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation
Aluminum	6920	160	6390	76	6990	100	16300	210	3410	520	6590	170
Antimony	141.7	3.8	143.0	2.8	146.0	3.0	66.90	0.49	63.5	1.4	86.10	0.67
Arsenic	82.8	1.2	82.2	3.9	84.0	1.7	73.7	2.7	57.5	1.9	78.8	4.2
Barium	183.7	8.1	170.00	0.92	185.0	2.4	160.0	1.6	40.4	5.1	90.1	1.2
Beryllium	0.86	0.02	0.84	0.02	0.88	0.03	1.79	0.05	0.45	0.01	0.93	0.03
Bismuth	12.03	0.42	15.3	2.2	13.6	2.9	98.8	1.0	4.42	0.39	103.0	1.4
Cadmium	168.7	3.2	180.0	2.5	175.0	2.3	43.00	0.37	50.70	0.76	60.10	0.39
Calcium	69000	1000	65600	660	68700	750	120000	1400	26500	3900	45500	640
Chromium	3433	76	3360.0	7.3	3440	21	2520	28	1890	280	3050	33
Cobalt	70.9	1.1	68.5	1.1	71.10	0.85	23.20	0.16	27.60	0.36	40.40	0.74
Copper	2007	15	2060	26	2050	53	455	· 16	445	49	678	21
lron	287300	3500	283000	1900	290000	2100	265000	2500	402000	59000	463000	7200
Lanthanum	7.73	0.32	7.27	0.14	7.76	0.29	15.80	0.16	5.15	0.20	8.42	0.31
Lead	11033	58	11600	82	11400	85	1450	14	349	70	1280	28
Lithium	54.1	1.6	56.0	1.1	56.30	0.09	14.60	0.75	3.88	0.88	8.39	0.46
Magnesium	46230	230	45300	170	46400	85	36400	320	4510	640	13400	130
Manganese	44570	310	43200	430	45200	470	15600	150	4780	710	9040	100
Molybdenum	123.7	4.0	111.0	4.1	206.0	2.6	246	11	260.0	3.7	536	16
Nickel	205.7	2.1	203.0	3.3	206.0	1.3	649	21	444.0	3.1	1560	29
Phosphorus	1397	12	1380	23	1390.0	8.5	612	11	186	·12	300.0	2.8
Silicon	591.0	8.5	643.0	9.6	611	15	600.0	9.2	1460	110	409.0	2.6
Silver	42.53	0.60	43.40	0.54	43.10	0.79	7.22	0.12	2.94	0.06	5.45	0.14
Strontium	73.4	1.9	70.3	1.0	74.9	3.0	129.0	3.2	45.50	0.78	72.1	1.6
Tin	229.0	3.5	236.0	3.4	233.0	1.8	31.20	0.59	26.70	0.41	40.20	0.54
Titanium	422	12	401.0	2.1	428.0	6.0	844	11	178	16	322.0	7.2
Tungsten	1433	12	1480	40	1450	57	220	11	75.3	4.0	236.0	7.5
Vanadium	163.0	3.0	158.0	4.1	162.0	5.3	210.0	6.6	65.1	1.9	102.0	4.0
Yttrium	1.30	0.06	1.19	0.03	1.33	0.08	6.99	0.13	0.87	0.02	2.96	0.04
Zinc	113000	1000	118000	870	116000	1000	14900	180	4580	700	16900	180
Zirconium	67.1	2.6	61.80	0.78	68.0	1.5	89.4	2.0	39.80	0.59	61.2	1.2

Table 5. LABORATORY ANALYTICAL RESULTS FOR SAMPLES FROM STATIONS S07 – S12 Warren Steel Holdings, LLC Warren, Ohio

			San	ple Station N	lo., NEIC Tag	No. and Anal	ytical Results				
	S)7	St	8	S)9	S [,]	10	S11	S [,]	12
Element	NE34731		NE34733		NE34735		NE34736		NE34738	NE4741	
Liement	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Average (mg/kg)	Standard Deviation
Aluminum	11000	270	9930	200	9700	240	8850	370	10200	8230	130
Antimony	80.0	2.4	66.0	1.3	74.2	1.8	81.6	2.1	69.7	77.0	3.1
Arsenic	78.00	0.99	73.3	3.3	73.0	2.6	77.5	3.3	74.6	77.5	4.5
Barium	139.0	1.3	143.0	1.6	140.0	2.4	122.0	5.6	127.0	107.0	1.0
Beryllium	1.17	0.04	1.11	0.04	1.19	0.04	1.02	0.02	1.02	0.83	0.04
Bismuth	35.6	1.7	33.2	1.9	16.60	0.98	41.9	1.5	28.6	23.4	1.9
Cadmium	63.6	1.4	48.70	0.79	48.20	0.75	63.9	1.0	51.2	59.5	3.4
Calcium	82300	1500	76600	1200	70900	1200	73400	2600	75400	60600	270
Chromium	2760	53	2260	24	2600	48	2760	120	2310	2570	24
Cobalt	32.10	0.95	31.50	0.43	33.40	0.65	34.50	0.26	30.45	34.6	1.5
Copper	673	10	539	14	521	20	623	25	487	564	17
Iron	374000	5400	338000	3700	384000	6200	392300	9100	349000	418000	2800
Lanthanum	12.00	0.20	13.20	0.28	11.90	0.37	10.53	0.51	14.95	10.30	0.11
Lead	2140	36	1250	34	867	28	1790	82	1150	1350.0	6.1
Lithium	14.90	0.57	13.00	0.39	12.60	0.52	13.63	0.51	13.20	10.20	0.69
Magnesium	26700	430	22000	140	23000	420	21600	690	21600	19100	180
Manganese	15400	240	9030	120	9920	180	12430	470	9900	10400	88
Molybdenum	379	· 13	354	11	420	13	426	- 21	354	425	14
Nickel	951	22	1120	21	1200	22	1083	29	907	1060	25
Phosphorus	468.0	7.7	412.0	4.2	365.0	5.5	407	15	372.0	340.0	1.9
Silicon	343.0	2.2	411.0	6.2	578	12	550	70	341.0	444.0	5.7
Silver	9.17	0.23	5.39	0.17	4.38	0.17	10.9	5.3	5.65	5.31	0.31
Strontium	101.0	2.9	107.0	3.0	98.4	2.2	103.7	1.5	104.0	79.2	4.3
Tin	48.6	1.6	33.80	0.70	29.60	0.40	44.67	0.91	30.65	30.8	1.4
Titanium	528.0	6.7	453.0	5.9	492.0	9.6	448.7	3.2	439.0	399.0	7.5
Tungsten	285	11	187.0	7.8	129.0	6.6	255.0	9.2	167.0	181.0	7.2
Vanadium	133.0	4.4	101.0	3.4	113.0	5.6	131.3	5.9	115.0	114.0	6.7
Yttrium.	4.42	0.13	4.97	0.14	4.68	0.14	3.70	0.07	4.70	3.32	0.22
Zinc	20600	360	13200	140	8040	190	18930	830	11200	12000	150
Zirconium	86.0	2.2	89.2	1.7	88.4	1.8	79.6	5.7	95.1	82.3	4.3

Warren Steel Holdings, LLC Warren, Ohio

Table 6. LABORATORY ANALYTICAL RESULTS FOR SAMPLES FROM STATIONS S13 - S18 Warren Steel Holdings, LLC Warren, Ohio

		··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	Sample Station	n No., NEIC Tag	No. and Analytic	cal Results			
	S1	3	S1	14	S15	S16	S17	S	18
Element	NE34743		NE34745		NE34747	NE34748	NE34751	NE4752	
Element	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Standard Deviation	Average (mg/kg)	Average (mg/kg)	Average (mg/kg)	Average (mg/kg)	Standard Deviation
Aluminum	13900	280	13100	210	6770	13600	1010	17700	250
Antimony	49.10	0.46	53.0	1.4	78.4	55.4	133.0	. 48.3	1.3
Arsenic	74.6	4.9	76.0	1.9	88.3	75.5	108.5	62.1	1.8
Barium	177.0	1.4	172.0	1.4	89.10	162.00	13.80	123.00	0.26
Beryllium	1.47	0.15	1.42	0.07	0.77	1.48	0.35	1.30	0.04
Bismuth	22.4	1.2	25.7	1.3	5.3	20.5	< 0.0421	20.3	1.5
Cadmium	34.20	0.34	37.0	1.3	55.55	35.15	81.65	18.60	0.34
Calcium	112000	710	107000.	1600	38100	101000	2250	116000	640
Chromium	1670	17	1810	15	2430	1920	4250	1950	12
Cobalt	25.60	0.27	27.20	0.80	48.55	26.00	72.35	17.10	0.50
Copper	435	10	472.00	0.38	658.0	396.0	941.0	218.0	2.3
Iron	249000	1900	268000	2300	469000	265000	733000	152000	610
Lanthanum	16.3	1.0	16.70	0.56	8.11	16.55	2.18	20.50	0.35
Lead	857	15	950.0	7.4	381	679	75	281	15
Lithium	15.4	1.4	15.00	0.71	8.59	15.50	0.35	8.94	0.18
Magnesium	27300	290	25100	260	11700	27800	1420	36400	390
Manganese	9690	.110	8190	120	6310	9290	6420	13700	65
Molybdenum	291.0	6.2	357.0	2.7	510.0	294.0	1100.0	191.0	1.8
Nickel	867	11	946.0	4.8	1570.0	874.0	3360.0	431.0	3.2
Phosphorus	525.0	5.3	492.0	6.1	296	459	199	558	10
Silicon	317.0	2.5	349.0	4.6	534.0	275.0	1780.0	548.0	7.1
Silver	4.34	0.20	4.42	0.21	3.46	4.07	2.68	3.36	0.09
Strontium	152	12	150.0	6.7	66.3	144.5	4.4	109.0	1.0
Tin	23.40	0.42	25.60	0.60	34.25	21.50	48.05	. 7.02	0.33
Titanium	589.0	6.0	550.0	3.1	257.0	621.0	56.0	850.0	2.7
Tungsten	126.0	6.3	139.0	2.3	81.6	102.0	32.9	94.0	2.0
Vanadium	116	16	109.0	8.0	87.2	124.5	104.5	269.0	6.2
Yttrium	7.81	0.66	7.71	0.31	2.96	7.73	< 0.00467	4.55	0.07
Zinc	7940	130	9420	100	4500	6050	524	3500	47
Zirconium	99.6	8.0	99.0	3.8	58.2	106.5	44.0	94.8	1.8

DATA QUALITY SUMMARY

Quality control (QC) measures for TCLP metals determinations included matrix matching, blanks, spikes, independent calibration verification (ICV), continuing calibration verification (CCV), and replicate sample analysis. Each extract was measured in triplicate, and the measurement uncertainty was the standard deviation of the triplicate for metals that were over the reporting limit. Since no metals were present at concentrations of interest for the RCRA characteristic of toxicity, analytical results and measurement uncertainty are not listed here and are maintained in the project files.

QC measures for aqua-regia digestions and ICP-OES metals determinations included blanks, spikes, ICV, CCV, and replicate sample analysis. For samples measured in triplicate or more, the measurement uncertainty is the standard deviation. Standard deviations for these samples are listed in **Tables 4 through 6**. For all other samples, which were measured in duplicate, the measurement uncertainty does not exceed 17 percent as calculated from a Type B evaluation using the greatest QC parameter $(30\%/\sqrt{3})$. Boron, potassium, sodium, sulfur, selenium, and thallium were not reported due to poor quality control. There was a low recovery for barium in a standard reference material; this may indicate that reported values for barium in the samples are minimum values. Percent relative standard deviations exceeded quality control criteria for bismuth in two samples, and for aluminum, lithium, lead, and zinc in one sample.